



# Parts Manual

Cummins **Onan**

Performance you rely on.™



## Commercial Mobile Generator Set

HGJAD (Spec A–E,J)  
HGJAE (Spec A–E,J-K)  
HGJAF (Spec A–C)

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

\_\_\_\_\_  
MODEL AND SPEC NO.

\_\_\_\_\_  
SERIAL NO.

\_\_\_\_\_  
DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE)

## SAFETY PRECAUTIONS

The following symbols are used in Cummins/Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.

 **DANGER**

*This symbol warns of immediate hazards which will result in severe personal injury or death.*

 **WARNING**

*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*

 **CAUTION**

*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.*

## PRODUCT SAFETY PRECAUTIONS

 **WARNING**

***Service and repair of Cummins/Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.***

 **WARNING**

***Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.***

 **WARNING**

***Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!***

 **WARNING**

***Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!***

## Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

### Generator Set Data Table

Model Identification	Fuel	Wiring Diagram	Voltage	Hertz	Phase
5.5HGJAD1911A/B/C	Gasoline (EFI)	611-1274	120/240	60	1
5.5HGJAD2138A/BC	Gasoline (EFI)	611-1274	120	60	1
5.5HGJAD2140A/B/C	Gasoline (EFI)	611-1274	120/240	60	1
5.5HGJAD2142A/B/C	Gasoline (EFI)	611-1274	120/240	60	3
5.5HGJAD2243A/B/C	Gasoline (EFI)	611-1274	120	60	1
7HGJAD1910A/B/C	Gasoline (EFI)	611-1274	120/240	60	1
7HGJAD2139A/B/C	Gasoline (EFI)	611-1274	120	60	1
7HGJAD2141A/B/C	Gasoline (EFI)	611-1274	120/240	60	1
7HGJAD2143A/B/C	Gasoline (EFI)	611-1274	120/240	60	3
7HGJAD2244A/B/C	Gasoline (EFI)	611-1274	120	60	1
7HGJAD2559A/B/C	Gasoline (EFI)	611-1274	120	60	1
7HGJAD2560A/B/C	Gasoline (EFI)	611-1274	120/240	60	1
5.5JGHAE2131A/B/C	Gasoline	611-1273	120	60	1
5.5JGHAE2133A/B/C	Gasoline	611-1273	120/240	60	1
5.5JGHAE2135A/B/C	Gasoline	611-1273	120/240	60	1
5.5JGHAE2136A/B/C	Gasoline	611-1273	120/240	60	3
5.5JGHAE2144A/B/C	LPG	611-1273	120/240	60	1
6.5HGJAE2145A/B/C	LPG	611-1273	120/240	60	1
7HGJAE1912A/B/C	Gasoline	611-1273	120/240	60	1
7HGJAE2132A/B/C	Gasoline	611-1273	120	60	1
7HGJAE2134A/B/C	Gasoline	611-1273	120/240	60	1
7HGJAE2137A/B/C	Gasoline	611-1273	120/240	60	3
7HGJAE2556A/B/C	Gasoline	611-1273	120/240	60	1
5.5HGJAF1914A/B/C	Gasoline	611-1273	120/240	60	1
5.5HGJAF1916A/B/C	Gasoline	611-1273	120/240	60	3
5.5HGJAF1917A/B/C	Gasoline	611-1273	120/240	60	1
5.5HGJAF2108A/B/C	Gasoline	611-1273	120	60	1
5.5HGJAF2109A/B/C	LPG	611-1273	120/240	60	1
6.5HGJAF2113A/B/C	LPG	611-1273	120/240	60	1
7HGJAF1913A/B/C	Gasoline	611-1273	120/240	60	1
7HGJAF2110A/B/C	Gasoline	611-1273	120/240	60	1
7HGJAF2111A/B/C	Gasoline	611-1273	120	60	1
7HGJAF2112A/B/C	Gasoline	611-1273	120/240	60	3

\* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

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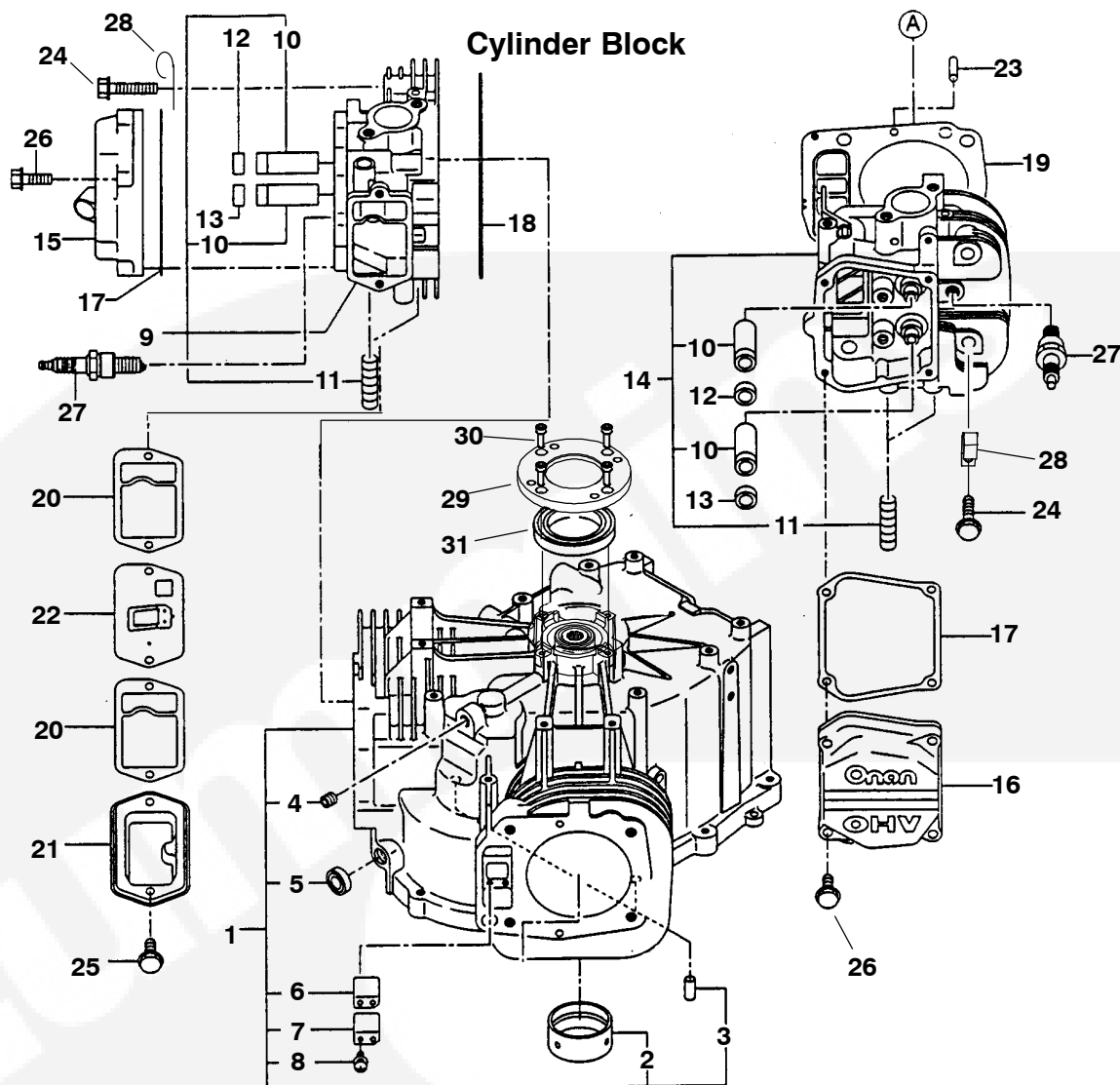
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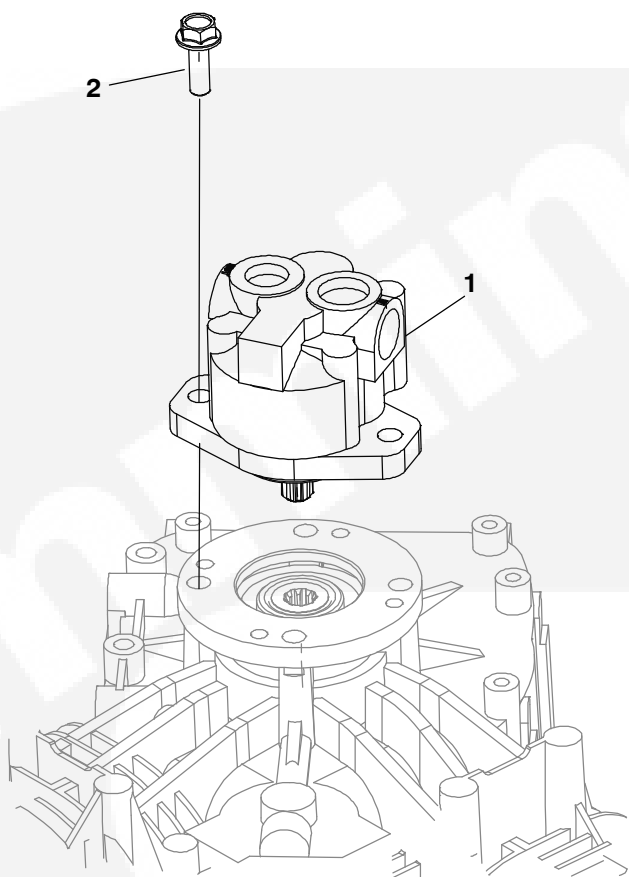


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement				Guides and Studs)
	A026K051	1	EFI w/PTO	15	110-3929	1	Cover, Rocker (1)
	A026M568	1	EFI w/o PTO	16	110-3930	1	Cover, Rocker (2)
	A029W645	1	Carb w/PTO	17	187-6236	2	Gasket, Rocker Cover
	A029W599	1	Carb w/o PTO	18	187-6224	1	Gasket, Cylinder Head (1)
1			Block Assy, Cylinder (Includes Parts Marked *)	19	187-6230	1	Gasket, Cylinder Head (2)
	187-6223	1	w/o PTO	20	187-6025	2	Gasket, Breather Plate
	110-3939	1	w/PTO	21	187-6026	1	Cover, Breather
2	187-6001	1	*Bearing, Main	22	187-6238	1	Plate, Breather
3	187-6002	2	*Pin, Dowel	23	187-6030	4	Pin, Dowel
4	187-6005	1	*Plug, Blind (w/Sealant)	24	187-6033	8	Bolt, Flange
5	187-6006	1	*Seal, Oil	25	187-6035	2	Bolt, Flange
6	187-6225	2	*Valve, Leaf	26	187-6241	8	Bolt, Flange
7	187-6226	2	*Plate, Retainer	27	167-1638	2	Plug, Spark
8	187-6227	4	*Screw/Washer Assy	28			Clip, Hose
9	187-6232	1	Head, Cylinder (1) (Includes Guide and Stud w/ Breather)		518-0533	2	EFI Sets
10	187-6233	4	Guide, Valve		518-0533	1	LP Sets
11	187-6016	4	Stud	29	121-0130	1	Adapter, Hydraulic (w/PTO)
12	187-6015	2	Seal, Intake Valve	30	725-1006	4	Screw, Socket Head (w/PTO)
13	187-6234	2	Seal, Exhaust Valve	31	187-6107	1	Seal, Shaft (w/PTO)
14	187-6235	1	Head, Cylinder (2) (Includes				

\* - Parts Included in Cylinder Block Assy.

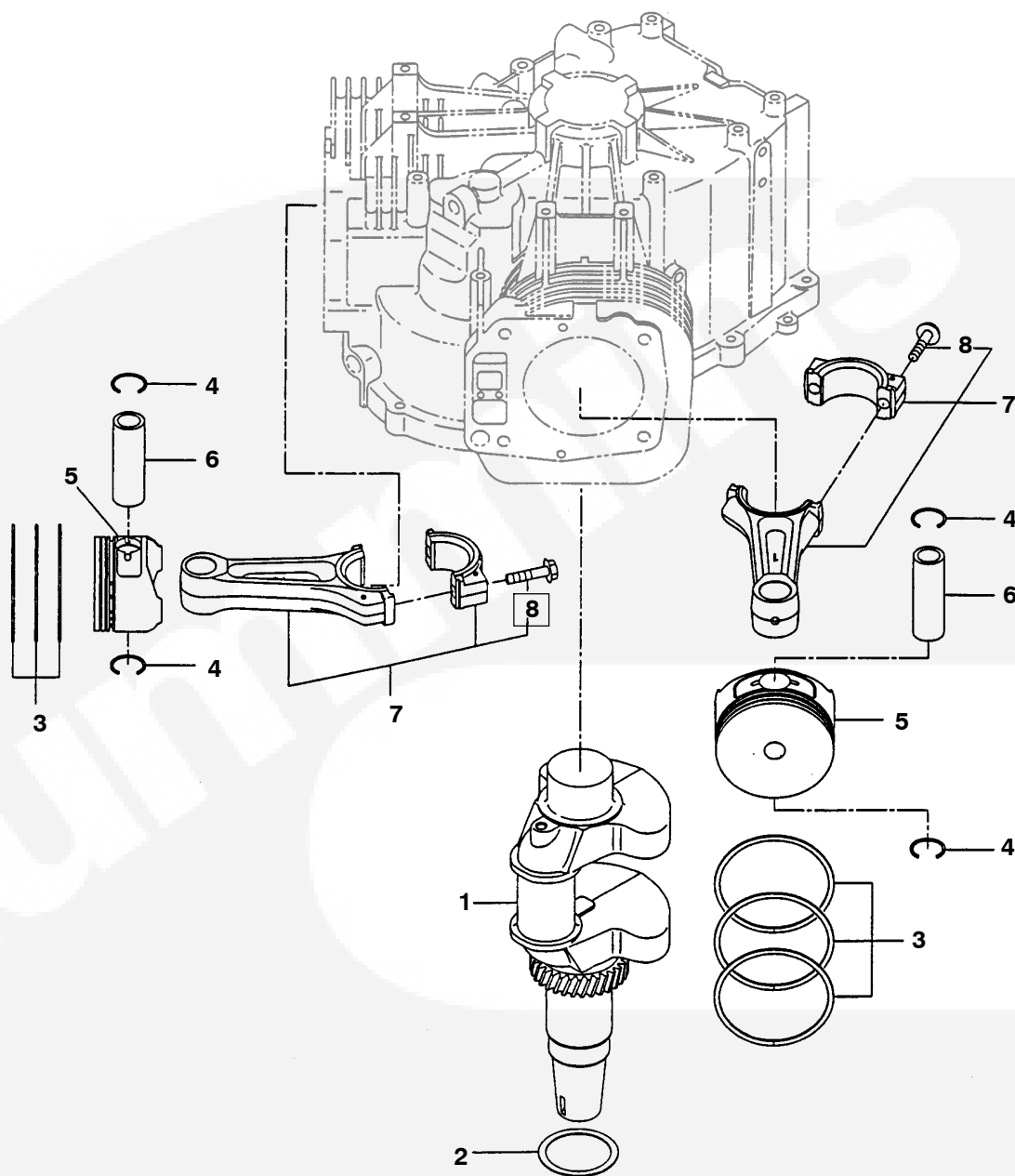


Hydraulic Pump  
HGJAE/HGJAF



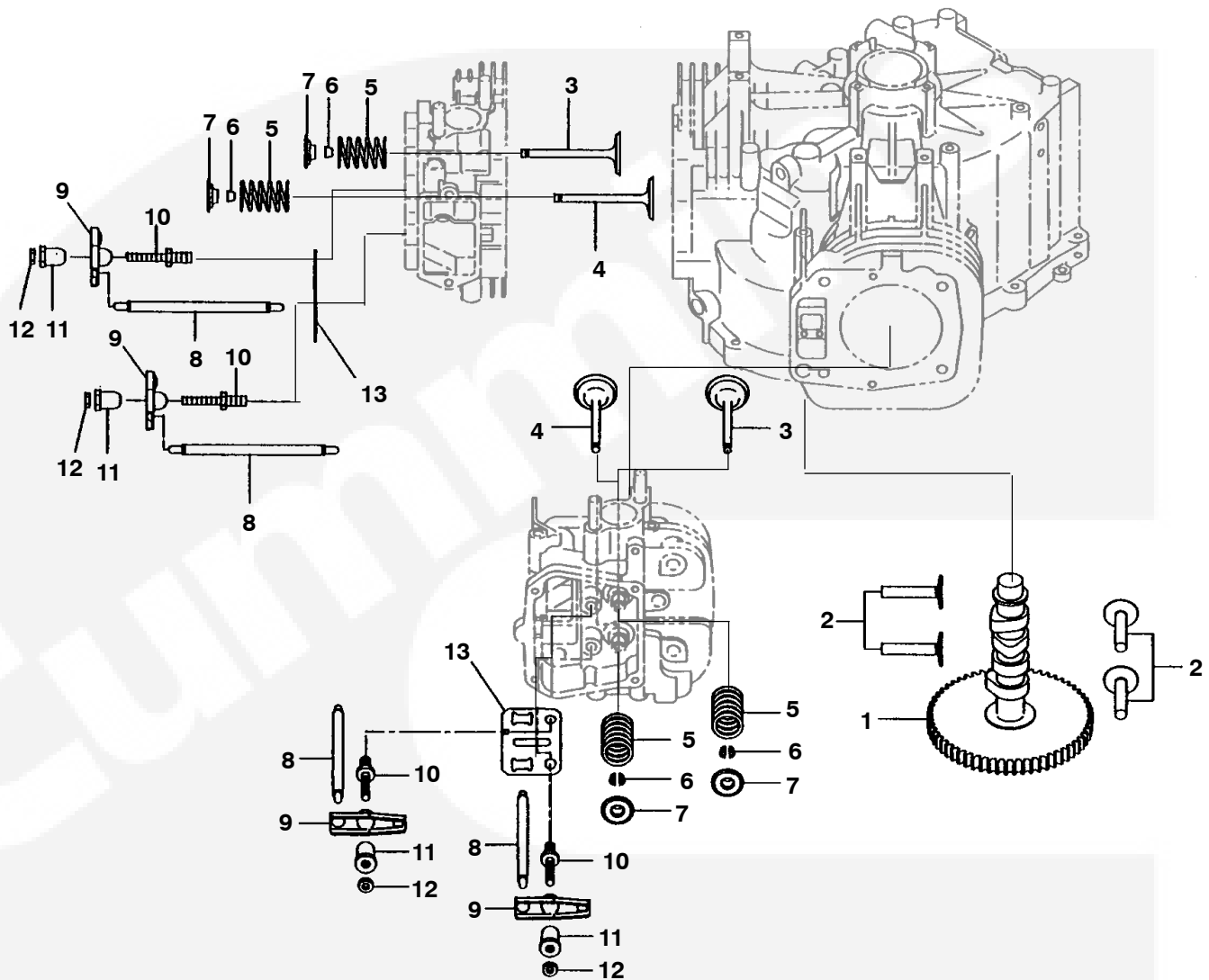
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	121-0122-02	1	Hydraulic, Pump
2	815-0954-03	2	Screw, Flange Head Machine (M8 x 1.25 x 25mm)

## Crankshaft



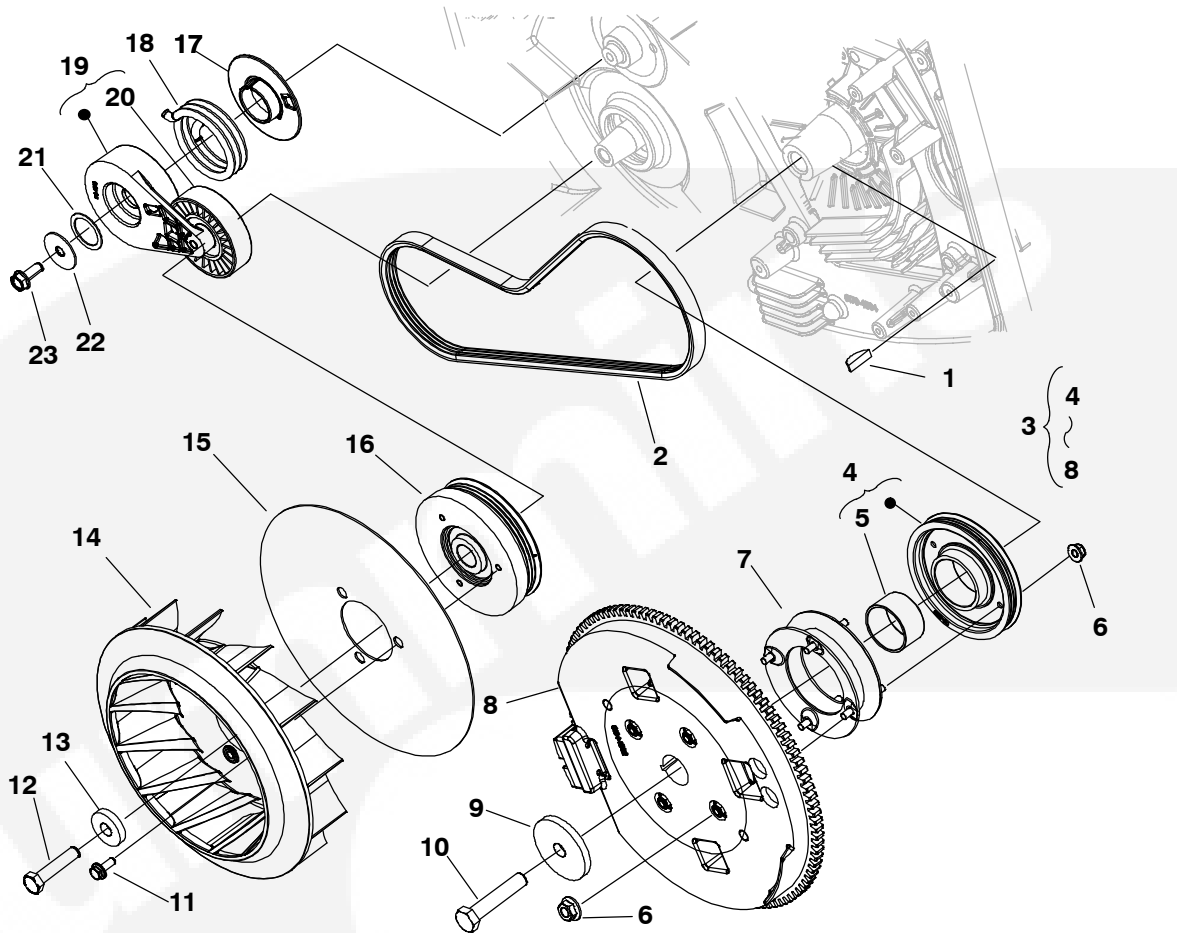
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-6242	1	Crankshaft w/o PTO	4	187-6045	4	Clip
	104-1978	1	w/PTO	5	187-6042	2	Piston Standard
2	187-6249	1	Spacer 0.6		187-6245	2	0.25 Oversize
	187-6250	1	0.8		187-6246	2	0.50 Oversize
	187-6251	1	1.0	6	187-6043	2	Pin, Piston
3	187-6044	2	Set, Piston Ring Standard	7	187-6243	2	Rod, Connecting (Includes Bolt)
	187-6247	2	0.25 Oversize	8	187-6244	4	Bolt, Connecting Rod
	187-6248	2	0.50 Oversize				

## Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-6252	1	Camshaft	8	187-6255	4	Rod, Push
2	187-6055	4	Tappet	9	187-6256	4	Arm, Rocker
3	187-6056	2	Valve, Intake	10	187-6257	4	Bolt, Pivot
4	187-6057	2	Valve, Exhaust	11	187-6258	4	Pivot
5	187-6058	4	Spring, Valve	12	187-6259	4	Nut
6	187-6059	8	Collet, Valve	13	187-6260	2	Plate, Guide
7	187-6060	4	Retainer, Spring				

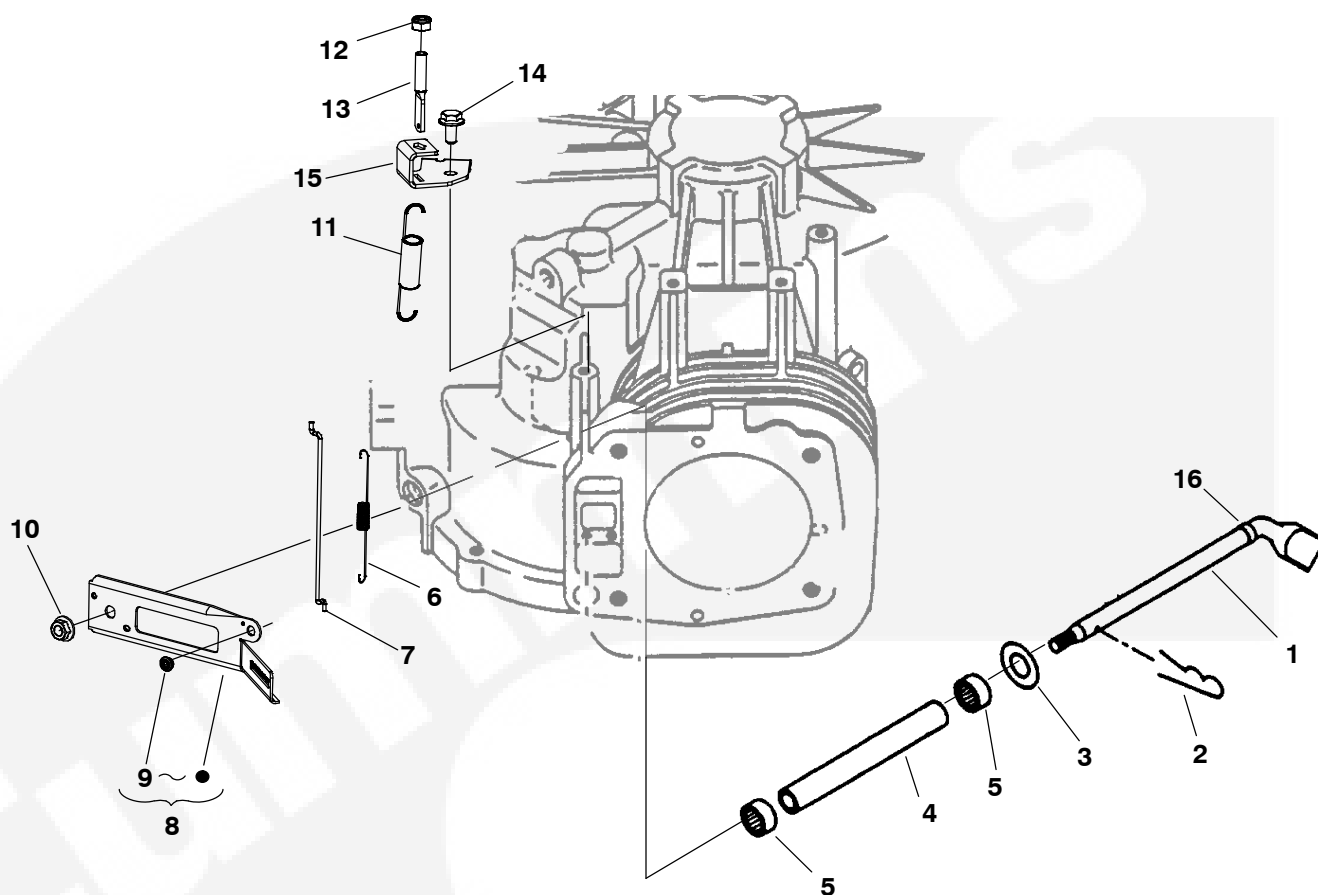
## Drive



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	515-0094	1	Key, Crankshaft Woodruff	12	718-1058	1	Screw, Hex Head Cap (M10 x 45mm)
2	511-0190-02	1	6.5 and 7kW	13	526-0017	1	Washer, Flat (15/32" ID x 1.25" OD)
	511-0190-01	1	5.5kW	14	205-0265	1	Fan, Generator
3			Flywheel Assy (Includes Parts Marked *)	15	A030C572	1	Backplate, Fan
	104-1958	1	Spec A	16			Pulley, Generator
	104-2000	1	Begin Spec B		512-0200	1	6.5 and 7kW
4			*Pulley Assy, Drive (Includes Bearing)		512-0194	1	5.5kW
	512-0208	1	Spec A	17	190-0754	1	Bushing, Tensioner
	512-0243	1	Begin Spec B	18	190-0753	1	Spring, Tensioner
5			*Bearing	19	190-0758	1	Arm Assy, Tensioner (Includes Pulley)
	104-1959	1	Spec A	20	512-0199	1	Pulley, Tensioner
	510-0202-01	1	Begin Spec B	21	190-0759	1	Washer, Tensioner
6	870-2065-02	8	*Nut, Hex Flange	22	526-0461	1	Washer, Flat (M9 x 34mm)
7	512-0274	1	*Coupling	23	815-0829-06	1	Screw, Hex Washer Head Thread Form (M8 x 1.25 x 20mm)
8			*Flywheel				
	104-1953	1	Spec A				
	104-1999-02	1	Begin Spec B				
9	526-0172	1	Washer, Flat (1/2" ID x 2.25" OD)				
10	815-0930	1	Screw, Cap (M12 x 1.25 x .60mm)				
11	821-2033	3	Screw, Lock Flange (M6 x 1 x 16mm)				

\* - Parts Included in Flywheel Assy.

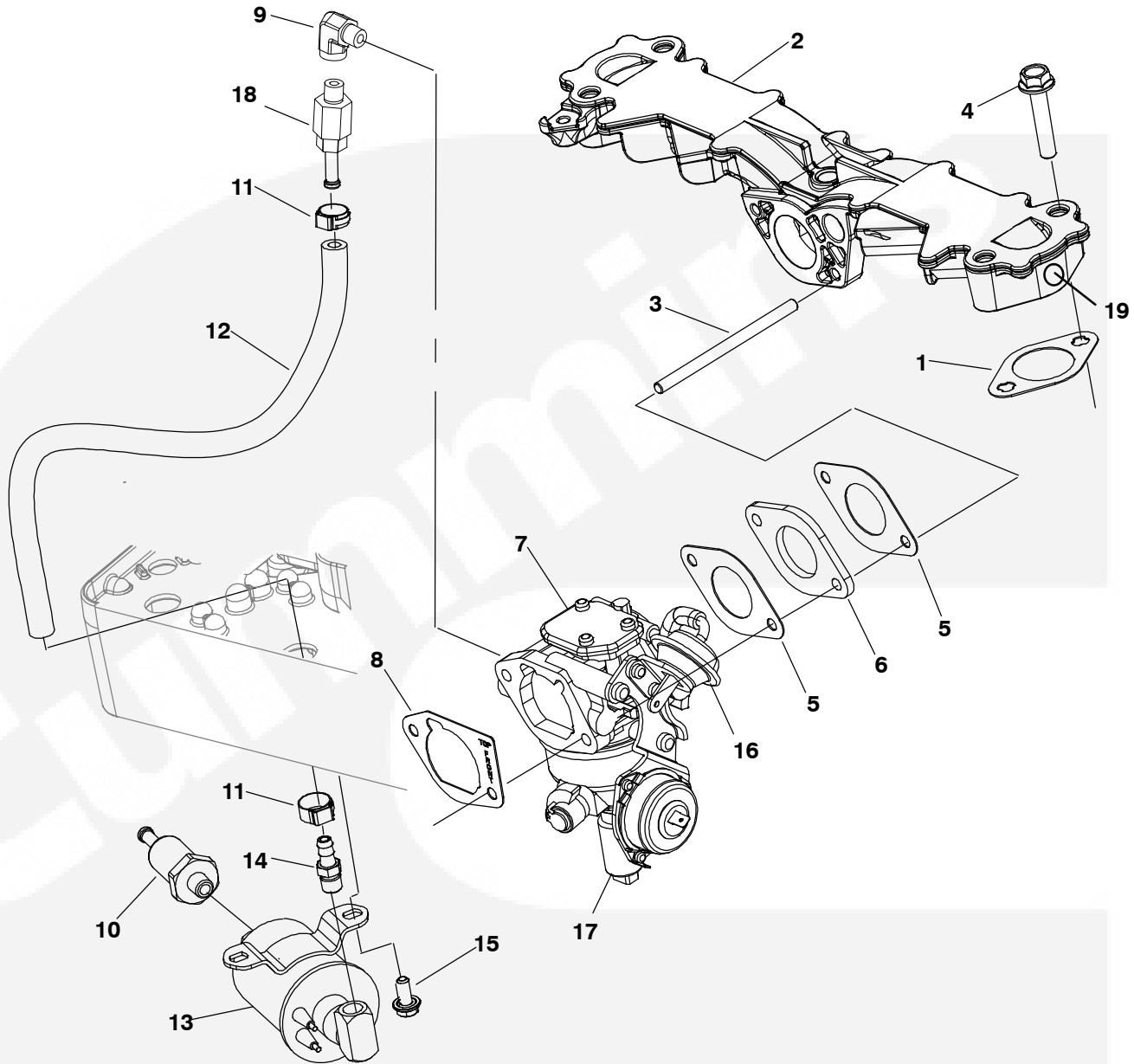
# **Governor** **HGJAE/HGJAF**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-6270	1	Shaft, Governor Lever
2	187-6085	1	Pin, Snap
3	187-6092	1	Washer
4	187-6271	1	Spacer
5	187-6272	2	Bearing, Needle
6	150-2748	1	Spring, Tension
7	150-2745	1	Link, Throttle
8	150-2771	1	Lever Assy, Governor (Includes Bushing)
9	505-1567	1	Bushing, Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	870-0558	1	Nut, Left Hand (M6 x 1)
11	150-2747	1	Spring, Governor 7.0 kW/6.5 kW
	151-0777	1	5.5 kW
12	870-0506	1	Nut, Nylon Lock (M6 x 1)
13	150-2744-02	1	Stud, Speed Adjust
14	821-2032	1	Screw, Lock Flange (M6 x 1 x 12mm)
15	150-2743	1	Bracket, Speed Control
16	187-6006	2	Seal

## Carburetor (Carb) (Spec A-E)



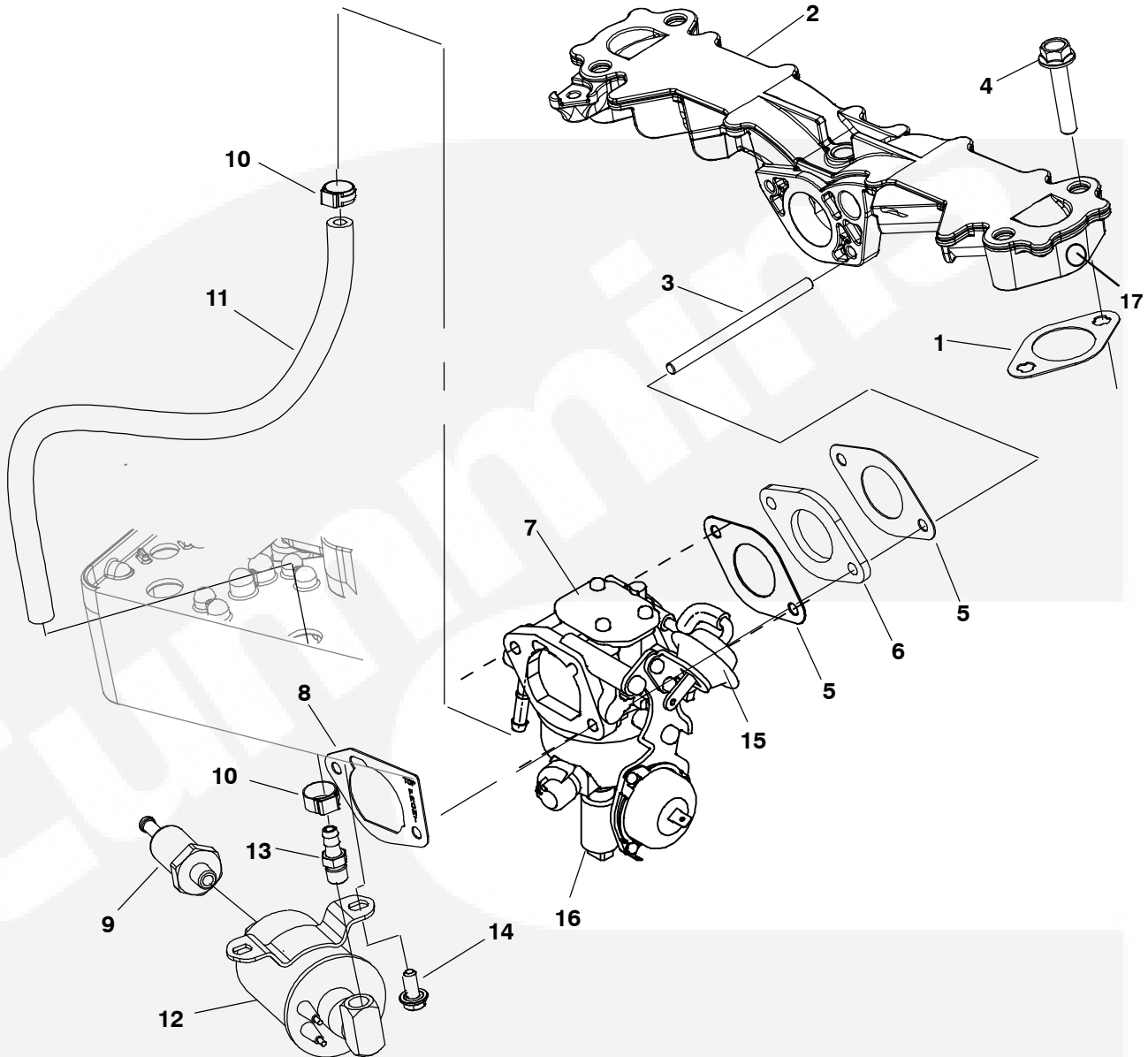
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0765	1	Kit, Carburetor (includes Gaskets)
1	154-3085	2	Gasket, Intake Manifold
2	154-3067-01	1	Manifold, Intake
3	520-1015	2	Stud (M6 x 1 x 96mm)
4	815-0954-08	4	Screw, Flange Head Machine (M8 x 1.25 x 42mm)
5	141-0982	2	Gasket, Carburetor
6	146-0773	1	Insulator, Carburetor
7	146-0774	1	Carburetor
8	141-0983	1	Gasket, Carburetor
9	505-1573	1	Elbow, Steel Street (1/8 ")
10	149-2341	1	Filter, Fuel
11	503-1951-08	2	Clamp, Hose
12	503-2138-02	1	Hose, Fuel (1/4" ID x 1/2" OD) (355mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	149-2620	1	Pump, Fuel
14	505-1572	1	Connector, Hose
15	815-0753	2	Screw, Hex Washer Head Thread Form (M6 x 1 x 14mm)
16	541-1222	1	Kit, Piston
17	146-0795	1	Solenoid, Fuel
18	A026E529	1	Adapter, Fuel Line
19	0718-1017	1	*Bolt

\* - Use Thread Sealant 0518-0288 when installing bolt

**NOTE:** This adapter (Ref No. 18) replaces the secondary, redundant fuel filter. Refer to Product Support Bulletin No. 712 for more information.

## Carburetor (Carb) (Begin Spec J)



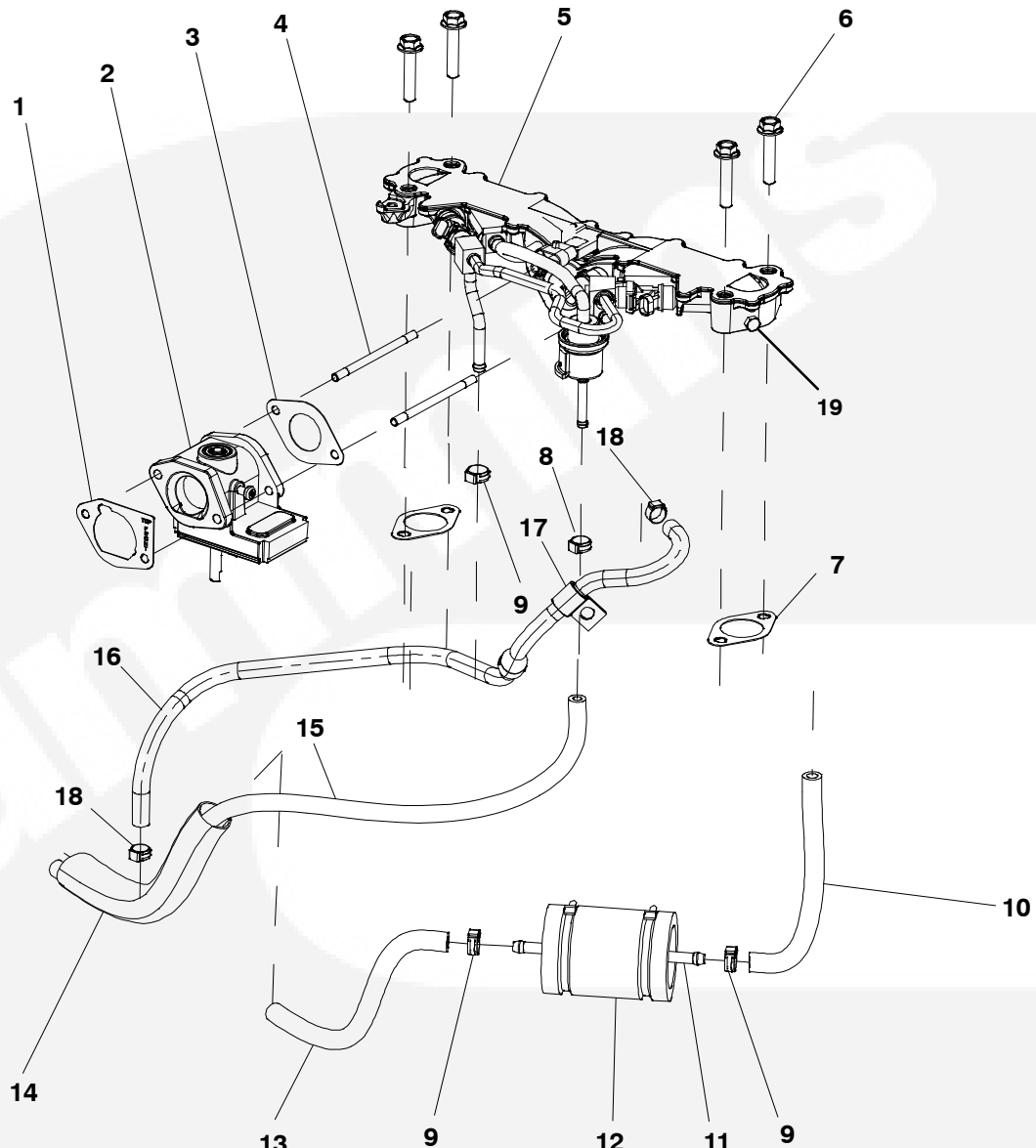
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A043B781	1	Kit, Carburetor (includes Parts Marked *) (Begin Spec K)				(355mm)
1	154-3085	2	Gasket, Intake Manifold	12	149-2620	1	Pump, Fuel
2	154-3067-01	1	Manifold, Intake	13	505-1572	1	Connector, Hose
3	520-1015	2	Stud (M6 x 1 x 96mm)	14	815-0753	2	Screw, Hex Washer Head Thread Form (M6 x 1 x 14mm)
4	815-0954-08	4	Screw, Flange Head Machine (M8 x 1.25 x 42mm)	15	A043B658	1	Kit, Choke
5	141-0982	2	*Gasket, Carburetor	16	146-0795	1	Solenoid, Fuel
6	146-0773	1	Insulator, Carburetor	17	0718-1017	1	#Bolt
7			Carburetor				
	A029J450	1	(Spec J)				
	A041P558	1	* (Spec K)				
	A040N099	1	(High Altitude)				
8	141-0983	1	*Gasket, Carburetor				
9	149-2341	1	Filter, Fuel				
10	503-1951-08	2	Clamp, Hose				
11	503-2138-02	1	Hose, Fuel (1/4" ID x 1/2" OD)				

\* - Parts Included in Kit

# - Use Thread Sealant 0518-0288 when installing bolt

Note: High Altitude carburetor is required to remain emissions compliant while operating above 5,000 feet for extended periods of time.

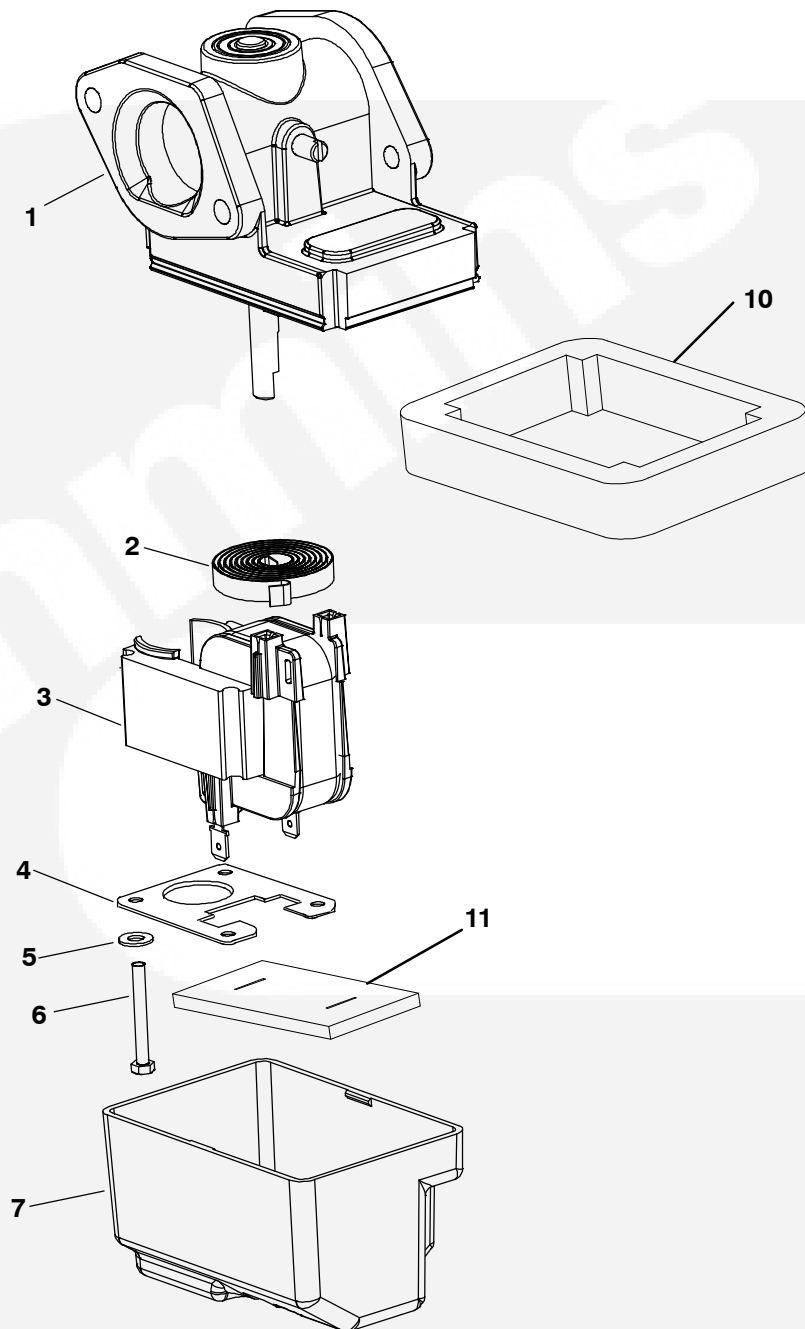
## Fuel System (EFI)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	141-0983	1	Gasket	13	503-2736-02	1	Hose, Fuel (5/16"ID x 216mm)
2	146-0782	1	Body, Throttle (See Separate Page for Components)	14	898-1347	1	Sleeve, Nylon
3	141-0982	1	Gasket	15	503-2737-01	1	Hose, Fuel(1/4"ID x 635mm)
4	520-1015	2	Stud	16		1	Hose, Vent
5	154-3070	1	Manfold, Intake		A029M248		(EVAP Spec A-E)
6	815-0954-08	4	Screw (M8x1.25x96mm)		A030T642		(EVAP Being Spec J)
7	154-3085	2	Gasket	17	518-0548-04	1	Clamp
8	503-1951-10	2	Clamp	18	503-1951-08	2	Clamp
9	503-1951-13	4	Clamp	19	0718-1017	2	*Bolt
10	503-2736-01	1	Hose, Fuel (5/16" ID x 123mm)	* - Use Thread Sealant 0518-0288 when installing bolt			
11	147-0860	1	Filter, Fuel				
12	895-0394	1	Isolator				

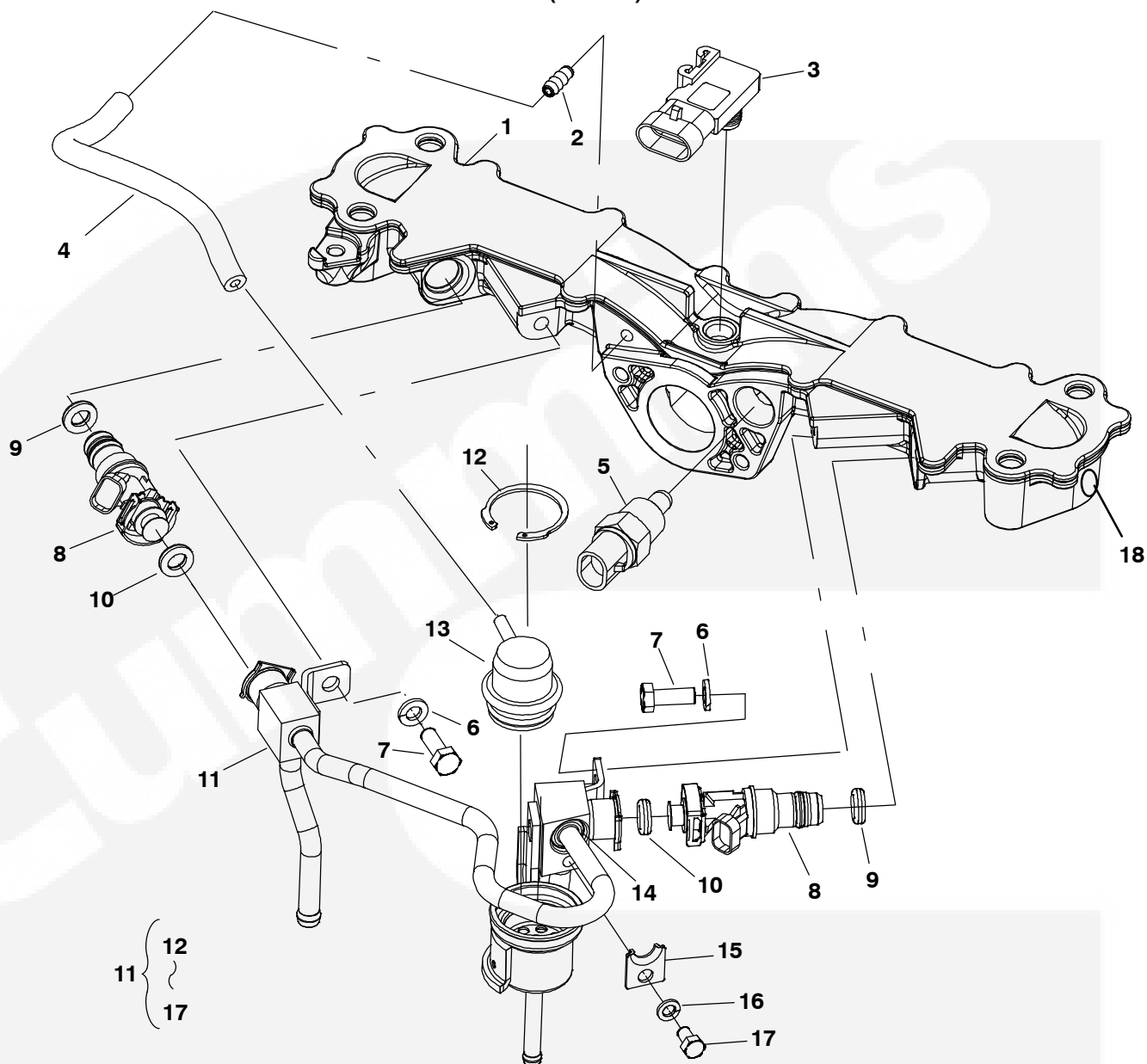


## Throttle Body Components (HGJAD)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0782	1	Body Assy, Throttle	6	800-3009	4	Screw, Hex Head Cap
1	146-0850	1	Body, Throttle	7	151-0719	1	Cover
2	151-0723	1	Spring, Torsion	10	146-0843	1	Gasket-Throttle_Body (Foam)
3	150-2685	1	Stator, Wound	11	146-0844	1	Gasket-Throttle_Body (Foam-inside)
4	146-0786	1	Retainer, Screw				
5	526-0003	4	Washer, Flat (3/16 ")				

## Intake Manifold EFI (HJGAD)

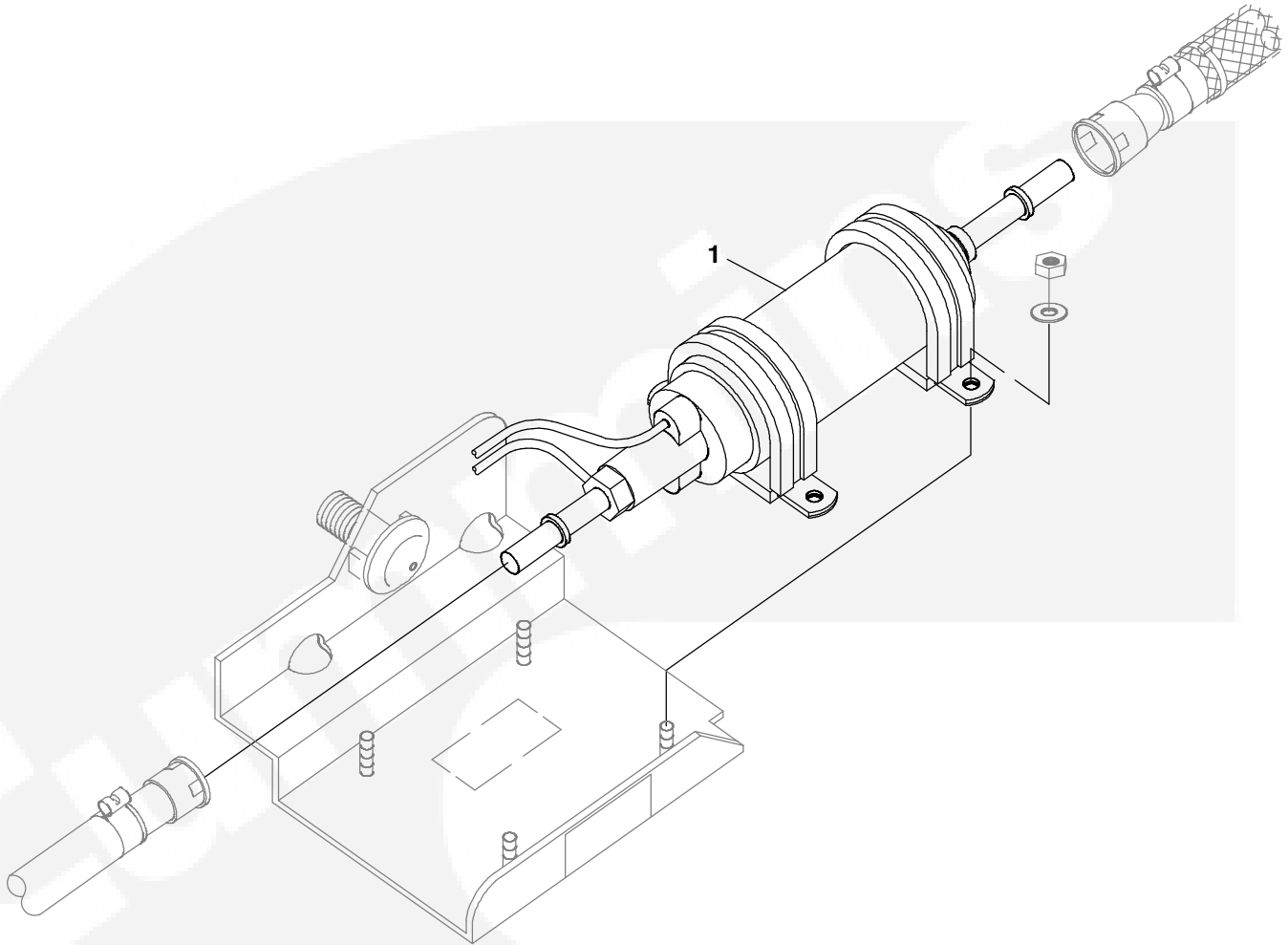


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3067-04	1	Manifold Assy, Intake (Includes Hose Connector)	12	147-0868	1	Marked *) *Ring, Pressure Regulator Snap
2	502-1314	1	Connector, Hose	13	147-0867	1	*Regulator, Fuel Pressure
3	193-0469	1	Sensor, Map	14	147-0865	1	*O'Ring (Not Part of Injector)
4	503-2848	1	Hose, Vacuum	15	147-0866	1	*Clamp, Fuel Rail
5	193-0480	1	Sensor, Manifold Air Temperature	16	850-2005	1	*Washer, Split Lock (M5)
6	850-2006	2	Washer, Split Lock (M6)	17	800-2000	1	*Screw, Hex Head Cap (M5 x 0.8 x 8mm)
7	800-2033	2	Screw, Hex Head Cap (M6 x 1 x 16mm)	18	0718-1017	1	@Bolt
8	147-0856	2	Injector, Fuel (Includes Parts Marked #)				
9	147-0864	2	#O'Ring, Injector				
10	147-0865	2	#O'Ring, Injector				
11	147-0855	1	Rail Assy, Fuel (Includes Parts				

\* - Parts Included in Fuel Rail Assy.  
See Remote Fuel Pump Kit for Fuel Pump  
# - Parts Included in Fuel Injector.

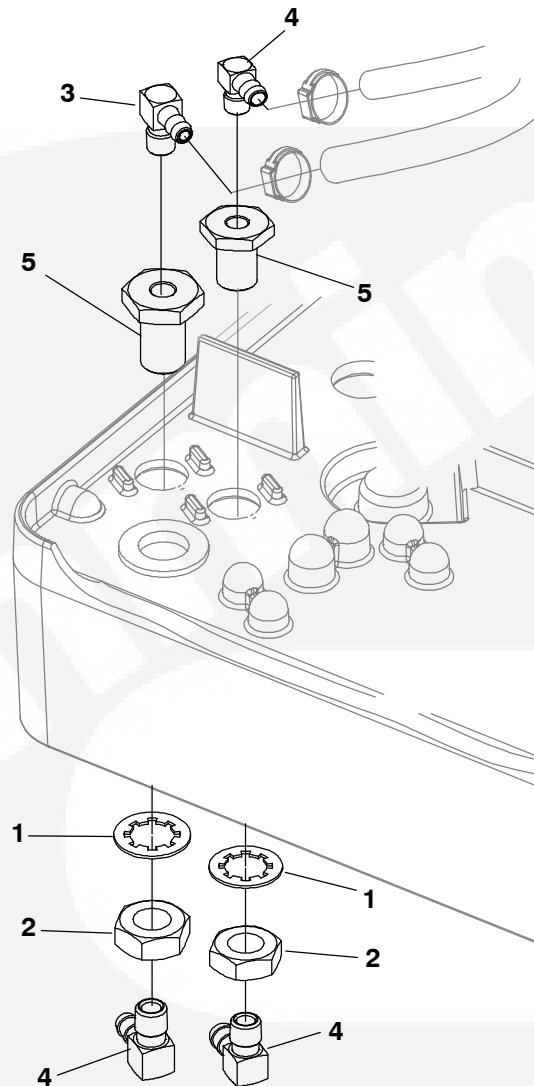
@ -Use Thread Sealant 0518-0288 when installing bolt

## Remote Fuel Pump Kit EFI (HGJAD)



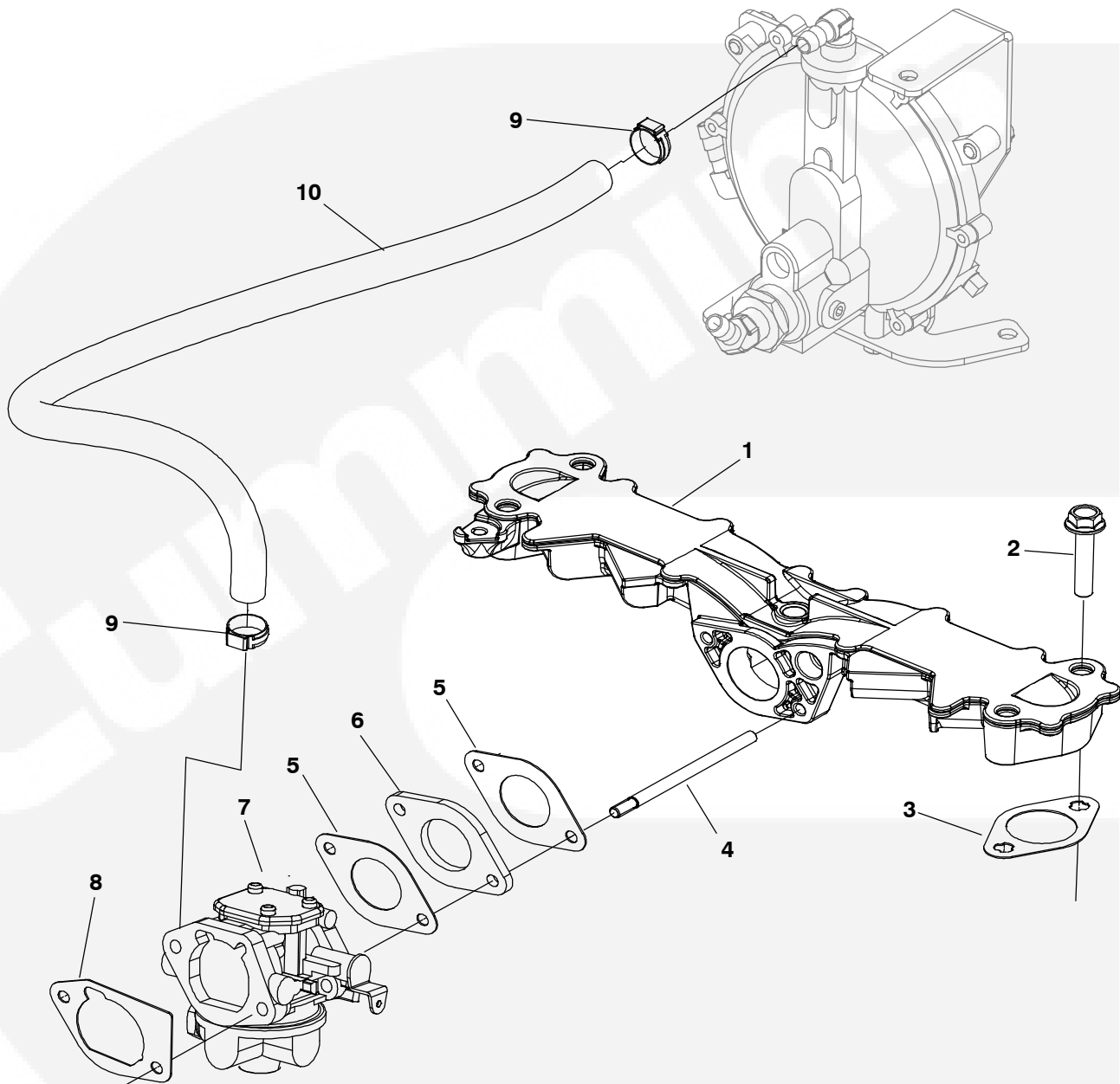
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0671	1	*Kit, Remote Fuel Pump (Ford)		541-0787	1	*Kit, Fuel System (GM Cab Chassis / Van)
	541-0673	1	*Kit, Remote Fuel Pump (Ford E Van)	1	149-2657	1	Pump, Fuel (Part marked * Include this Pump)
	541-0767	1	*Kit, Remote Fuel Pump (Ford E 450)	2	147-0859	1	Pump, Fuel (Part marked + Include this Pump)
	541-0788	1	Kit, Fuel System (Ford Pickup)	* - Note 149-2657 EFI fuel pump with quick connect fittings to be used in Commercial Mobile applications.			
	541-0789	1	*Kit, Remote Fuel Pump (GM LWB/SWB)				
	541-0933	1	*Kit, Remote Fuel Pump (GM 4500 Silverado)				
	541-1153	1	*Kit, Remote Fuel Pump (GM 2500)				
	541-1002	1	+ Kit, Remote Fuel Pump (Trailer Mounted remote kit only)				

## Bulkhead EFI (HGJAD)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	854-0028	2	Washer, IT Lock (5/8")	4	502-0313-02	3	Elbow, 90° Supply Hose (5/16" Hose ID)
2	868-0007	2	Nut, Hex Jam (5/8-18)	5	502-1296-02	2	Fitting, Bulkhead
3	502-0313	1	Elbow, 90° Return Hose (1/4" Hose ID)				

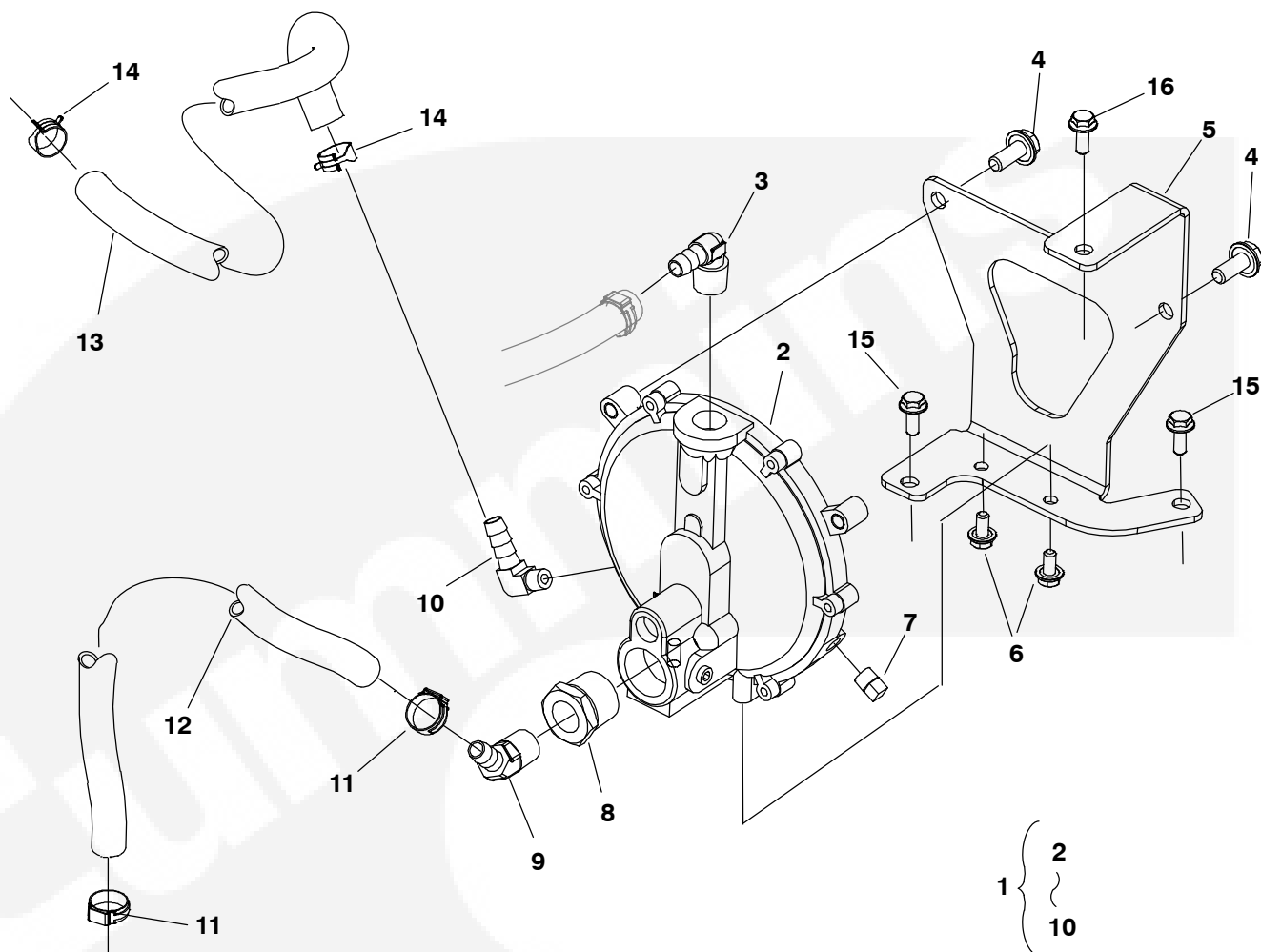
## Low Pressure Mixer (LP)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3067-03	1	Manifold, Intake
2	815-0954-08	4	Screw, Flange Head Machine (M8 x 1.25 x 42mm)
3	154-3085	2	Gasket, Intake Manifold
4	520-1015	2	Stud (M6 x 1 x 96mm)
5	141-0982	2	Gasket, Carburetor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	146-0773	1	Insulator, Carburetor
7	146-0791	1	Mixer
8	141-0983	1	Gasket, Carburetor
9	503-1951-20	2	Clamp, Hose
10	503-2143-03	1	Hose (550mm)

## Low Pressure Regulator (LP)

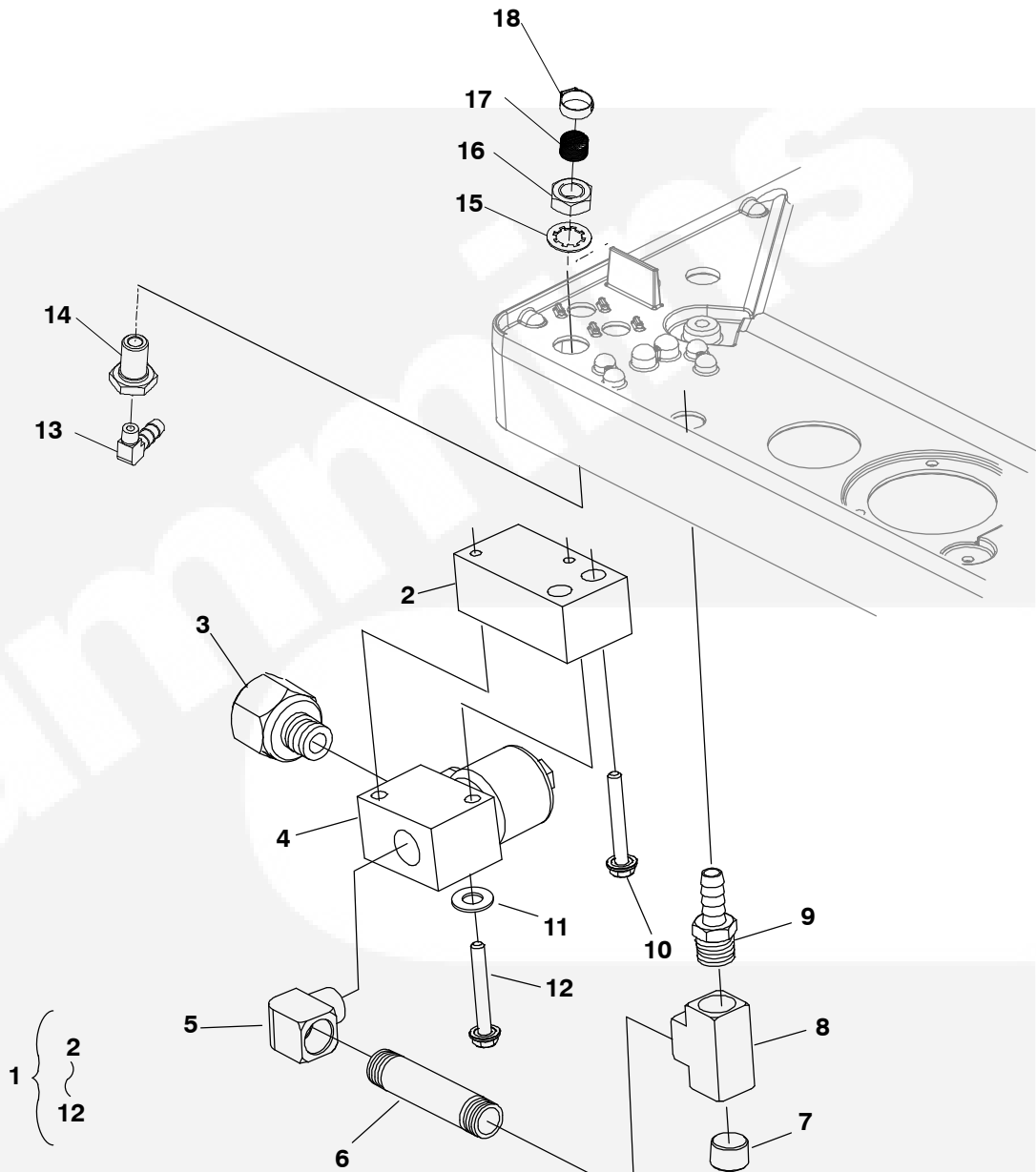


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1131-S0	1	Regulator Assy (Includes Parts Marked *)
2	148-1145	1	*Regulator
3	502-1345	1	*Elbow, 90° Pipe
4	821-2046	2	*Screw, Lock Flange (M8 x 1.25 x 20mm)
5	148-1303-02	1	*Bracket, Regulator
6	821-2032	2	*Screw, Lock Flange (M6 x 1 x 12mm)
7	505-0057	1	*Plug, Square Head
8	502-1344-01	1	*Bushing, Reducer
9	502-1346-01	1	*Elbow, 45° Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	502-1353-01	1	*Elbow, 90° Pipe
11	503-1951-20	2	Clamp, Hose
12	503-2143-02	1	Hose, LP (690mm)
13	503-2191	1	Hose, Bulk (3/8" ID) (1041cm)
14	503-1445-04	2	Clamp, Hose
15	815-0753	2	Screw, Hex Washer Head Thread Form (M6 x 1 x 14mm)
16	821-2033	1	Screw, Lock Flange (M6 x 1 x 16mm)

\* - Parts Included in Regulator Assy.

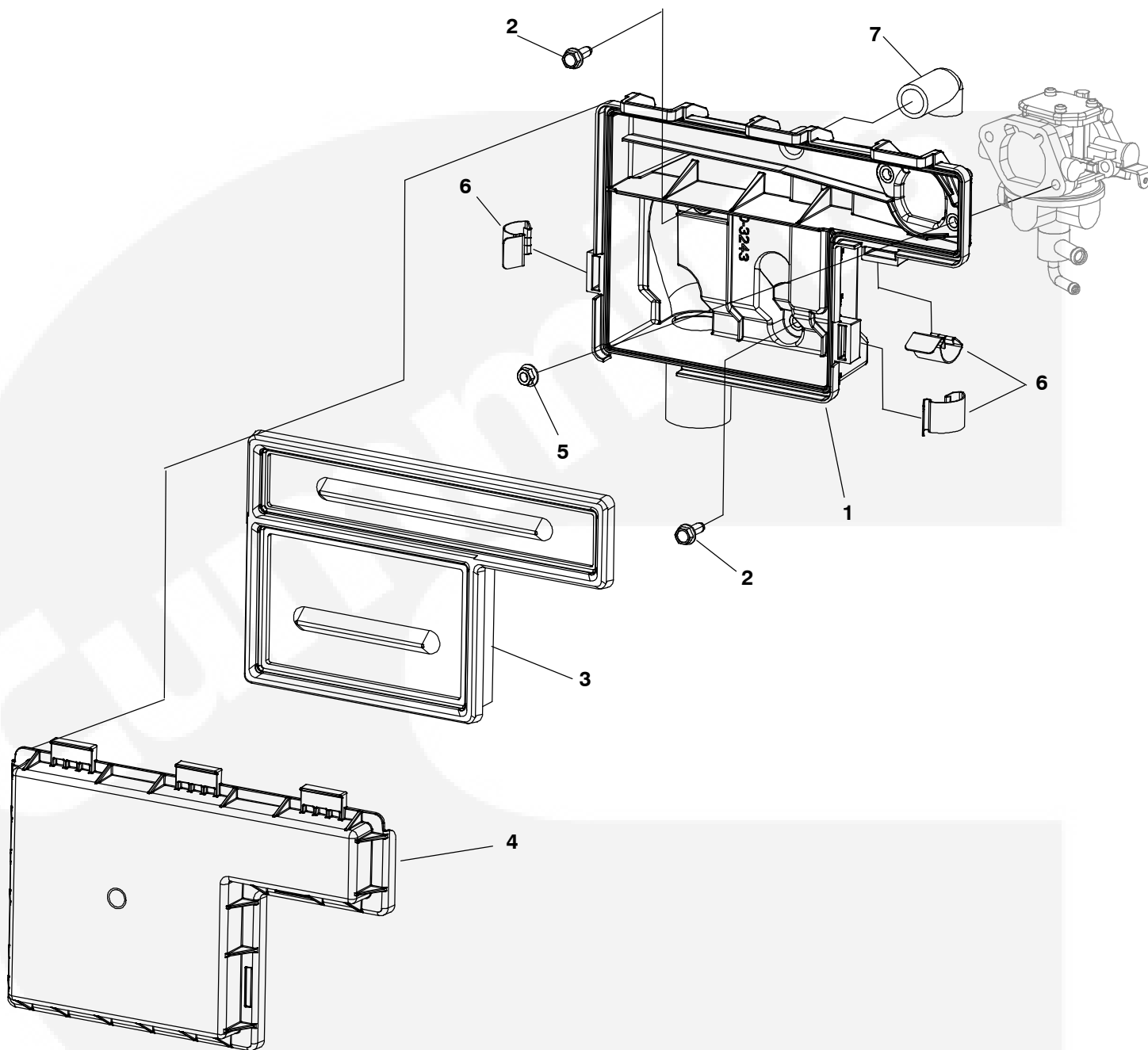
## Solenoid Shutoff Valve (LP)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2938	1	Solenoid Assy, Valve (Includes Parts Marked *)	11	526-0018	2	*Washer
2	149-2628	1	*Spacer, Solenoid	12	800-2040	2	*Screw, Hex Head Flange (M8 x 1.25 x 45mm)
3	502-1366	1	*Adapter, Pipe (3/8 " NPT x 3/8 " NPT)	13	502-1353-01	1	Elbow, 90° Pipe
4	307-2935	1	*Valve, Fuel Shutoff	14	502-1296-02	1	Fitting, Bulkhead
5	502-1347-01	1	*Elbow, 90° Street	15	854-0028	1	Washer, IT Lock (5/8")
6	502-1348-01	1	*Nipple, Pipe	16	868-0007	1	Nut, Hex Jam (5/8-18)
7	502-1339	1	*Plug, Pipe	17	148-1158	1	Screen, Vent
8	502-0090	1	*Tee, Pipe	18	503-1951-20	1	Clamp, Hose
9	502-1331-02	1	*Adapter, Pipe				
10	815-0776	2	*Screw, Hex Head Flange (M8 x 1.25 x 45mm)				

\* - Parts Included in Shutoff Solenoid.

## Air Cleaner



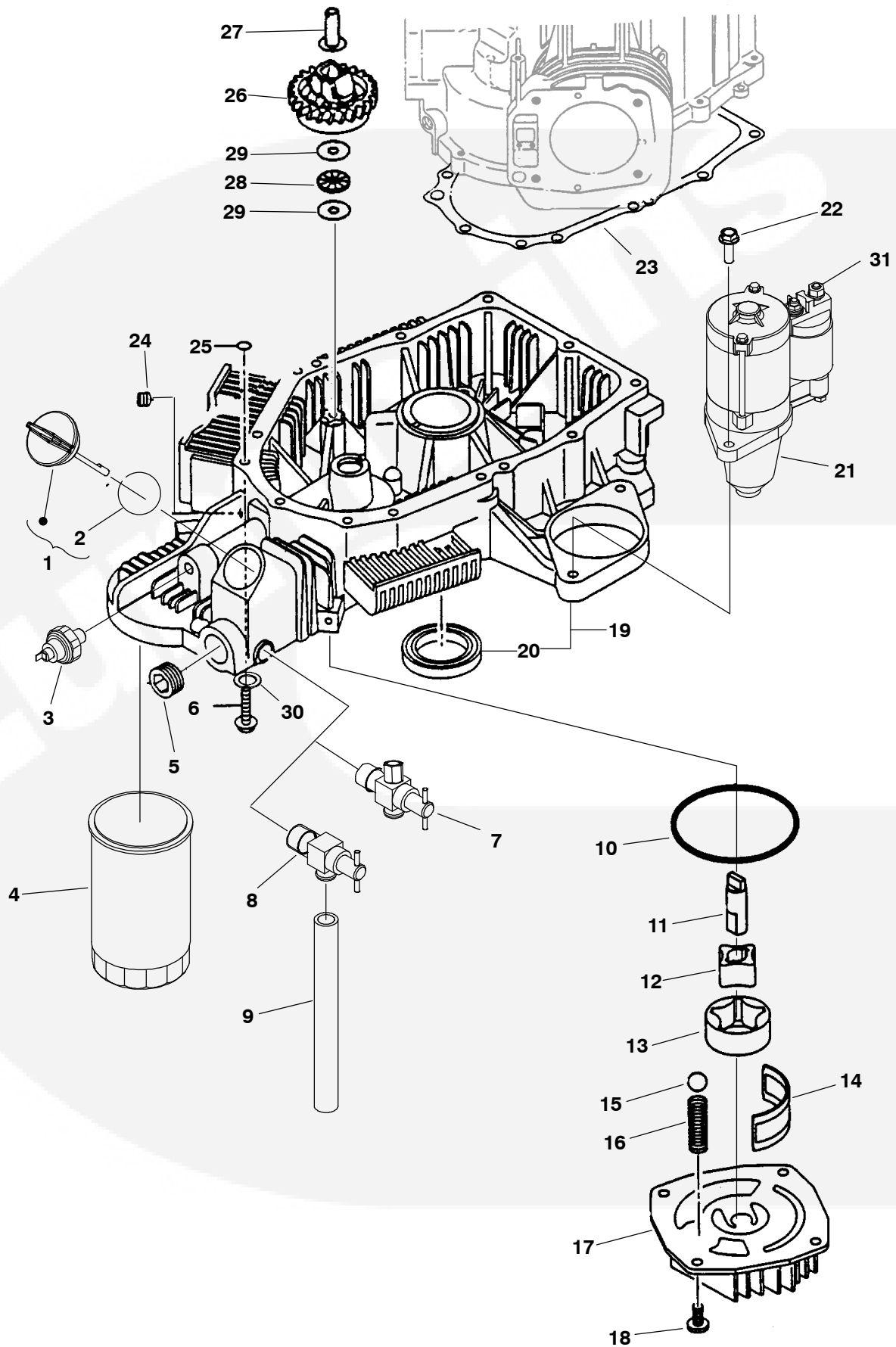
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3123	1	Housing, Air Cleaner	4	140-3122	1	Cover, Air Cleaner
2	815-0941-03	2	Screw, Hex Washer Head Thread Form (M6 x 1 x 18mm)	5	870-2065-02	2	Nut, Hex Flange
3	140-3116	1	Element, Air Cleaner	6	140-3121	3	Clip, Metal
				7	123-2109	1	Tube, Breather



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# Main Bearing Cover

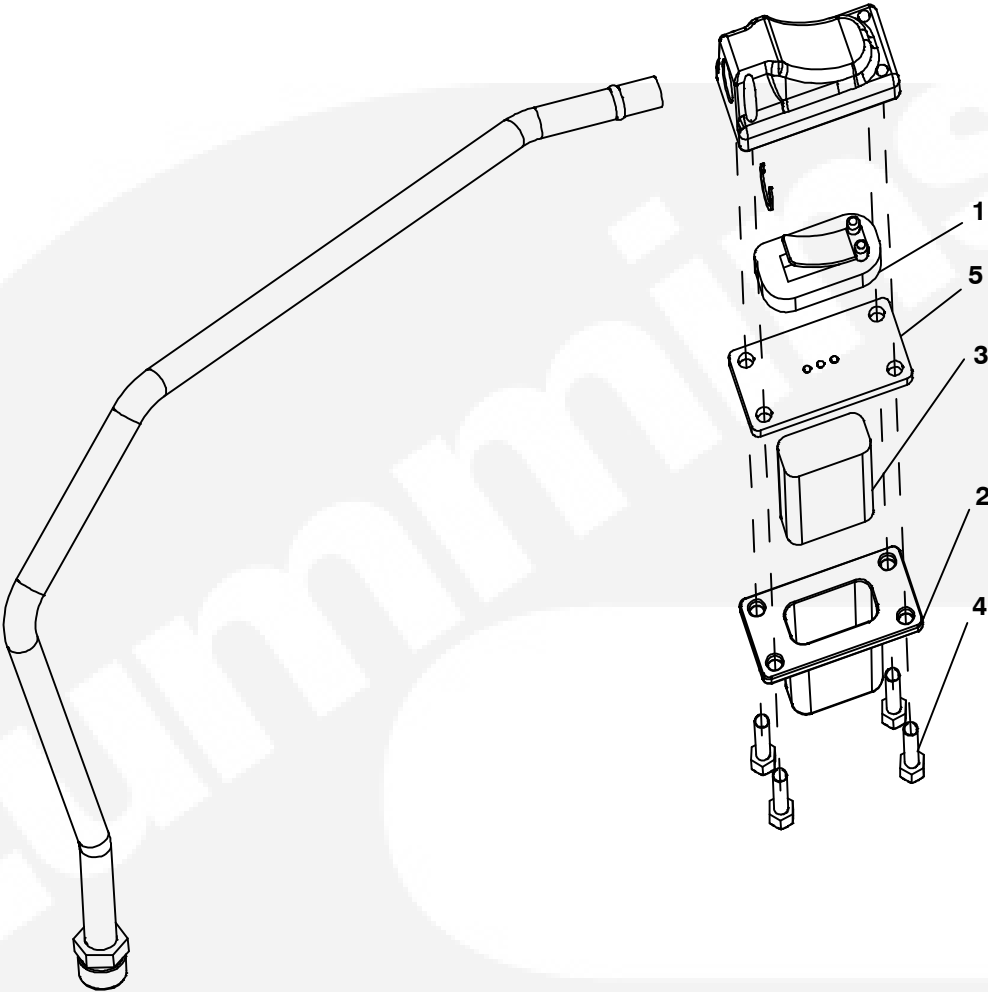


## Main Bearing Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-6266	1	Gauge, Oil (Includes O'Ring)	20	187-6228	1	Seal, Oil
2	509-0307	1	O'Ring	21	A029P528	1	Starter
3	187-6265	1	Switch, Oil Pressure	22	815-0954-03	2	Screw, Flange Head Machine (M8 x 1.25 x 25mm)
4	122-0836	1	Filter, Oil	23	187-6237	1	Gasket, Main Bearing Cover
5	187-6231	3	Plug, Drain	24	187-6005	1	Plug, Blind
6	187-6240	10	Bolt, Flange	25	187-6239	2	O'Ring
7	504-0204	1	Valve, Oil Shutoff (LP)	26	187-6229	1	Gear, Governor
8	504-0150	1	Valve, Oil Drain	27	187-6011	1	Sleeve, Governor
9	503-0103	1	Hose, Oil Drain (6")	28	187-6036	1	Bearing, Thrust
10	187-6108	1	O'Ring	29	187-6012	2	Washer
11	187-6263	1	Shaft, Oil Pump	30	526-0065	1	Washer
12	187-6261	1	Rotor, Inner	31	870-2055	1	Nut, Flange
13	187-6262	1	Rotor, Outer				
14	187-6268	1	Filter, Oil Pump				
15	187-6112	1	Ball, Steel				
16	187-6111	1	Spring, Relief Valve				
17	102-1492	1	Cover, Oil Pump				
18	187-6269	4	Bolt, Flange				
19	102-1491	1	Cover, Main Bearing (Includes Oil Seal)				

\*2 Qty O-Ring (187-6239) only required for main bearing cover with machined O-Ring feature.

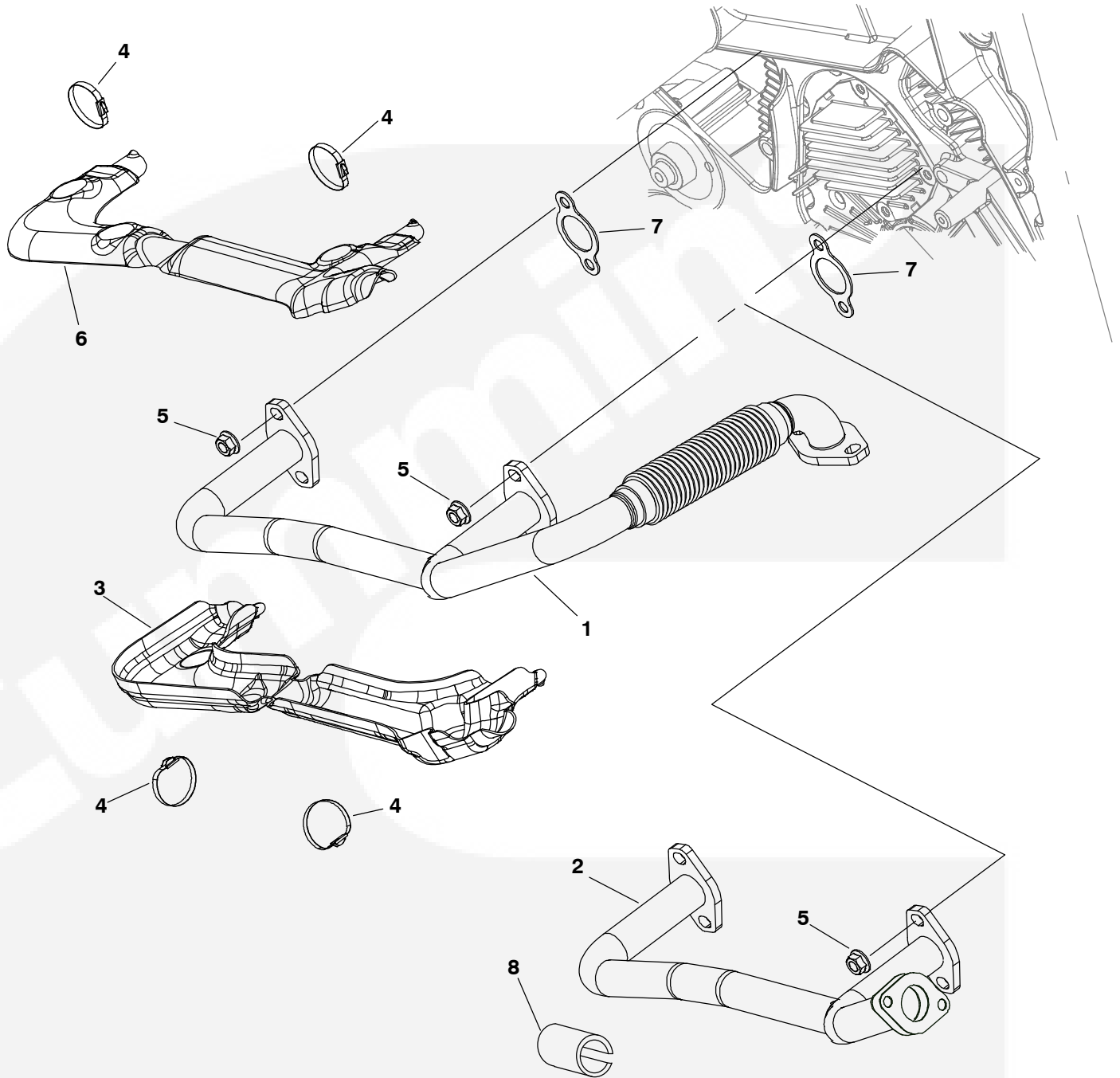
# Secondary Air-Module (Begin Spec J)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A030J361	1	Module, Secondary Air
1	A030J339	1	Valve
2	A030J351	1	Cover, Access

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	A030J333	1	Insulation, Sound
4	800-2031	4	Screw, Hex Head
5	A041E117	1	Orifice

## Exhaust Manifold

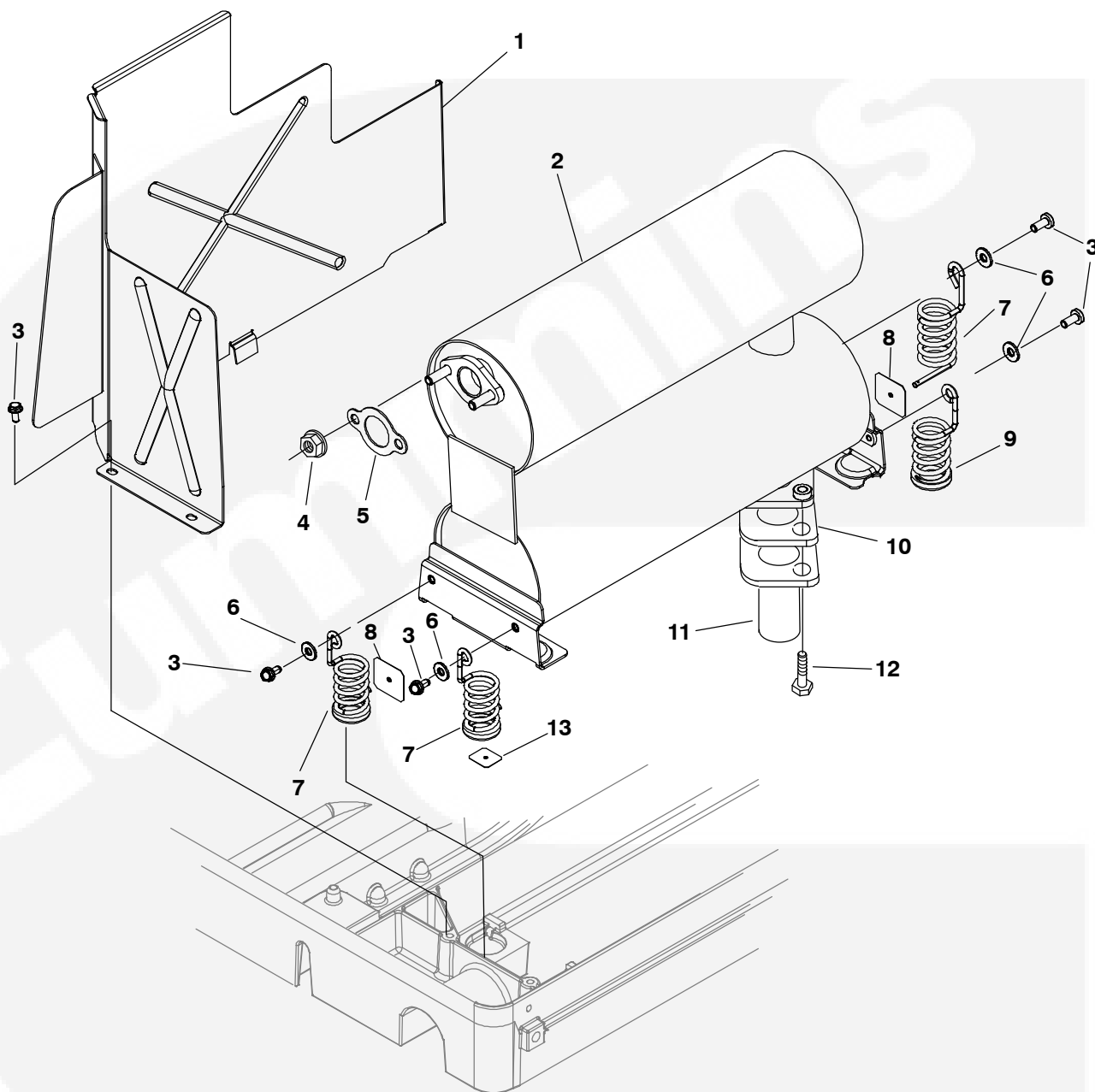


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3103	1	Manifold, Exhaust (HGJAD, HGJAE)
	A026H890	1	Spec A-E
	A030H483	1	Begin Spec J
2	154-3043	1	Manifold, Exhaust (HGJAF)
3	154-3092	1	Shield, Exhaust Manifold (HGJAD, HGJAE)
4	503-2176	4	Tie, Stainless Steel (HGJAD, HGJAE)
5	870-0557	4	Nut, Hex Flange (M8 x 1.25)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	154-3091	1	Shield, Exhaust Manifold (HGJAD, HGJAE)
7	154-2746	2	Gasket, Exhaust Manifold
8	405-6103	1	Insulation, Exhaust Manifold (HGJAF)
9	155-3468	1	Kit, Exhaust (HGJAF)
	155-3469		Below Mt Front Outlet
	155-3470		Below Mt Rear Outlet
	155-3499		Side Mt Front Outlet
			Side Mt Rear Outlet

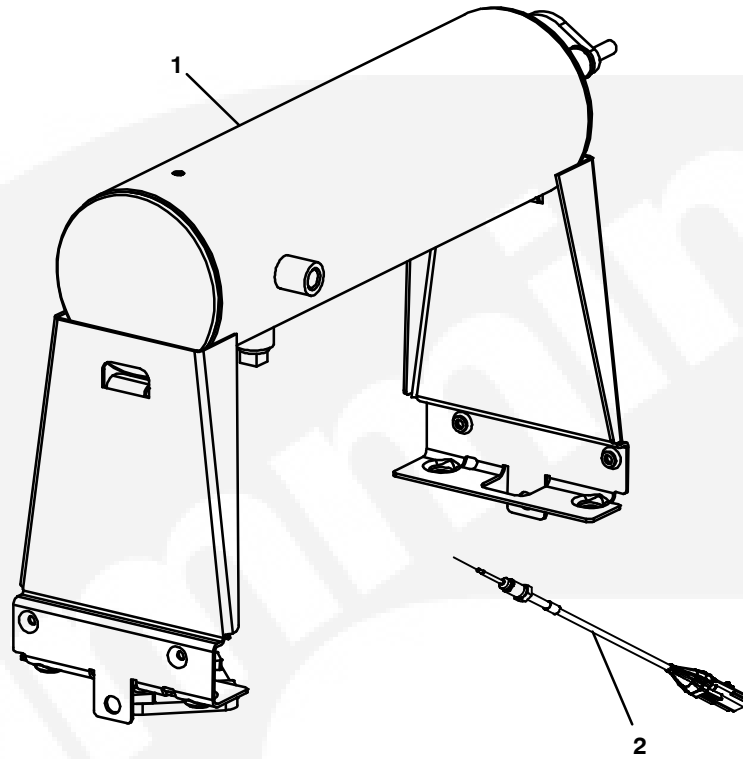
# Muffler

## HGJAD/HGJAE (Spec A-E)



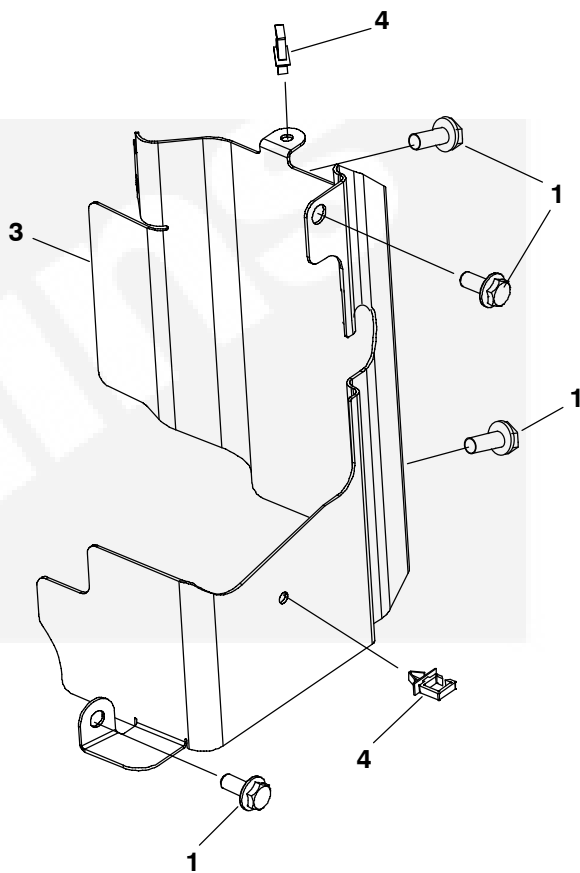
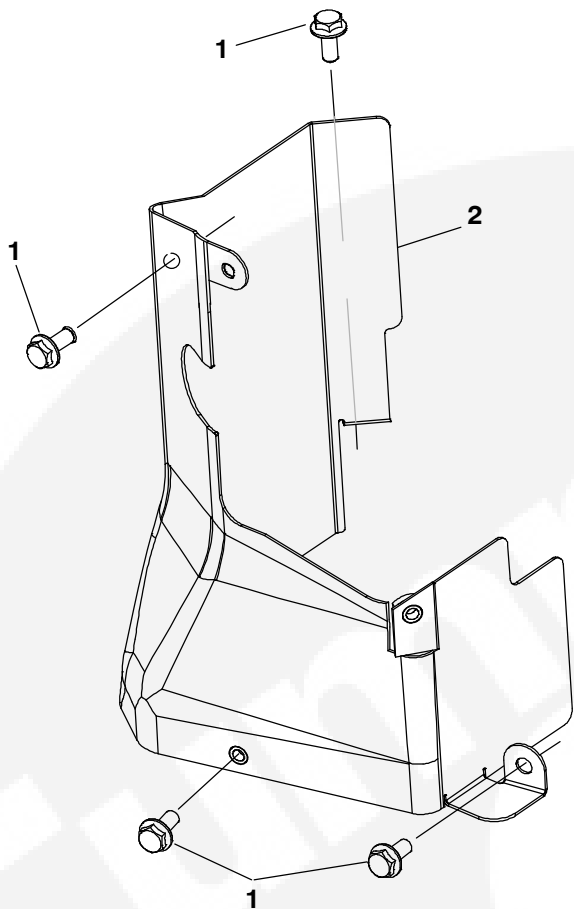
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030C565	1	Baffle (Spec A-H)	6	526-0018	4	Washer, Flat (1/4")
	A030J367	1	(Begin Spec J)	7	402-0754	3	Snubber, Spring
2			Muffler, Exhaust	8	870-0462	8	Nut, Push On
	155-3178	1	HGJAD	9	402-0755	1	Snubber, Spring
	155-3387	1	HGJAE	10	154-2765	1	Gasket, Muffler
3	815-0753	6	Screw, Hex Head Thread Form (M6 x 1 x 14mm)	11	155-2610-02	1	Tube, Exhaust
4	870-0557	2	Nut, Hex Flange (M8 x 1.25mm)	12	800-0730	2	Screw, Hex Head Crescent (5/13-18 x 1")
5	154-3112	1	Gasket, Muffler	13	870-0462	8	Nut, Push-On

# **Muffler** **HGJAD/HGJAE(Begin Spec J)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030M065	1	Silencer, Exhaust				
2	A030N808	1	Sensor, Temperature				

Air Cylinder Shroud

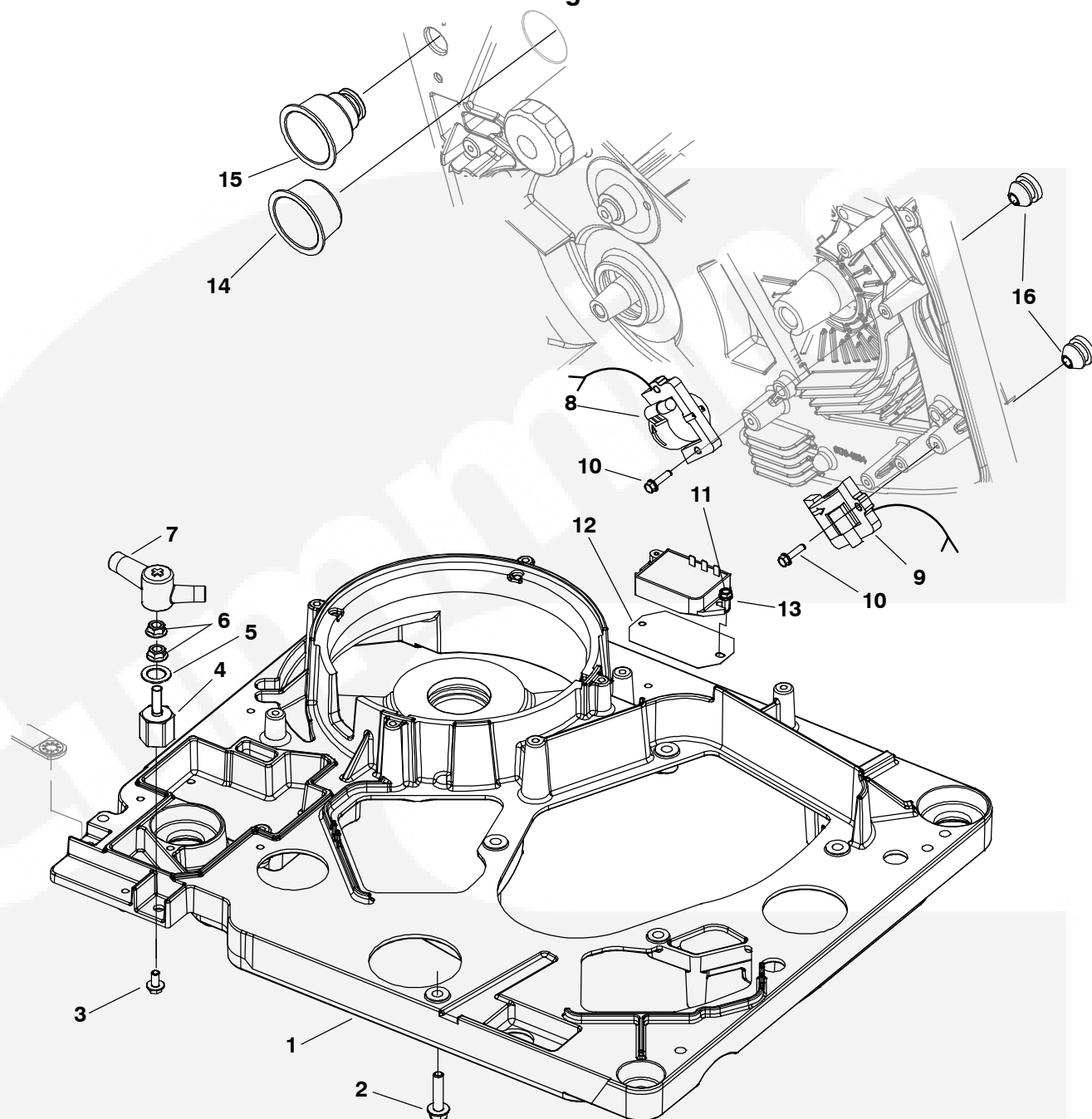


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0753	9	Screw, Hex Washer Head Thread Form (M6 x 1 x 14mm)
2	134-5188-02	1	Shroud, Cylinder (LH)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	134-5189-02	1	Shroud, Cylinder (RH)
4	332-2904	2	Clip, Wire

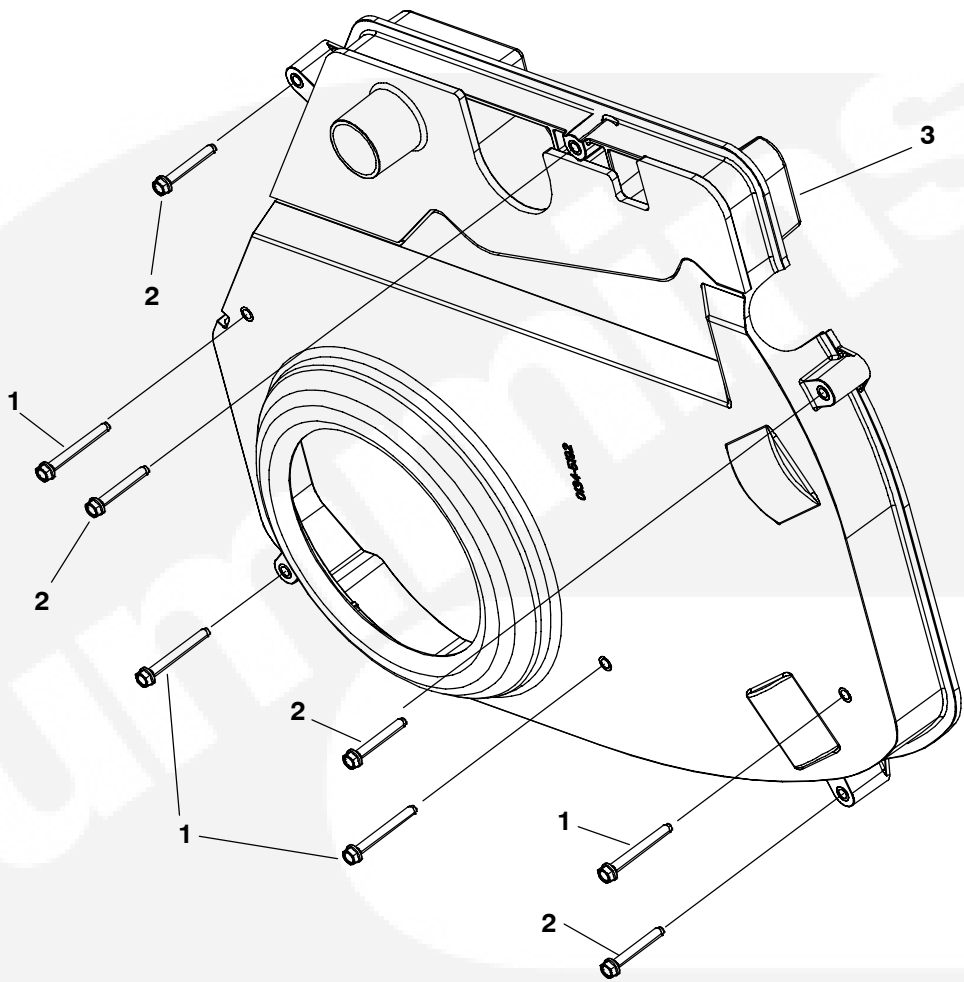


## Mounting Base



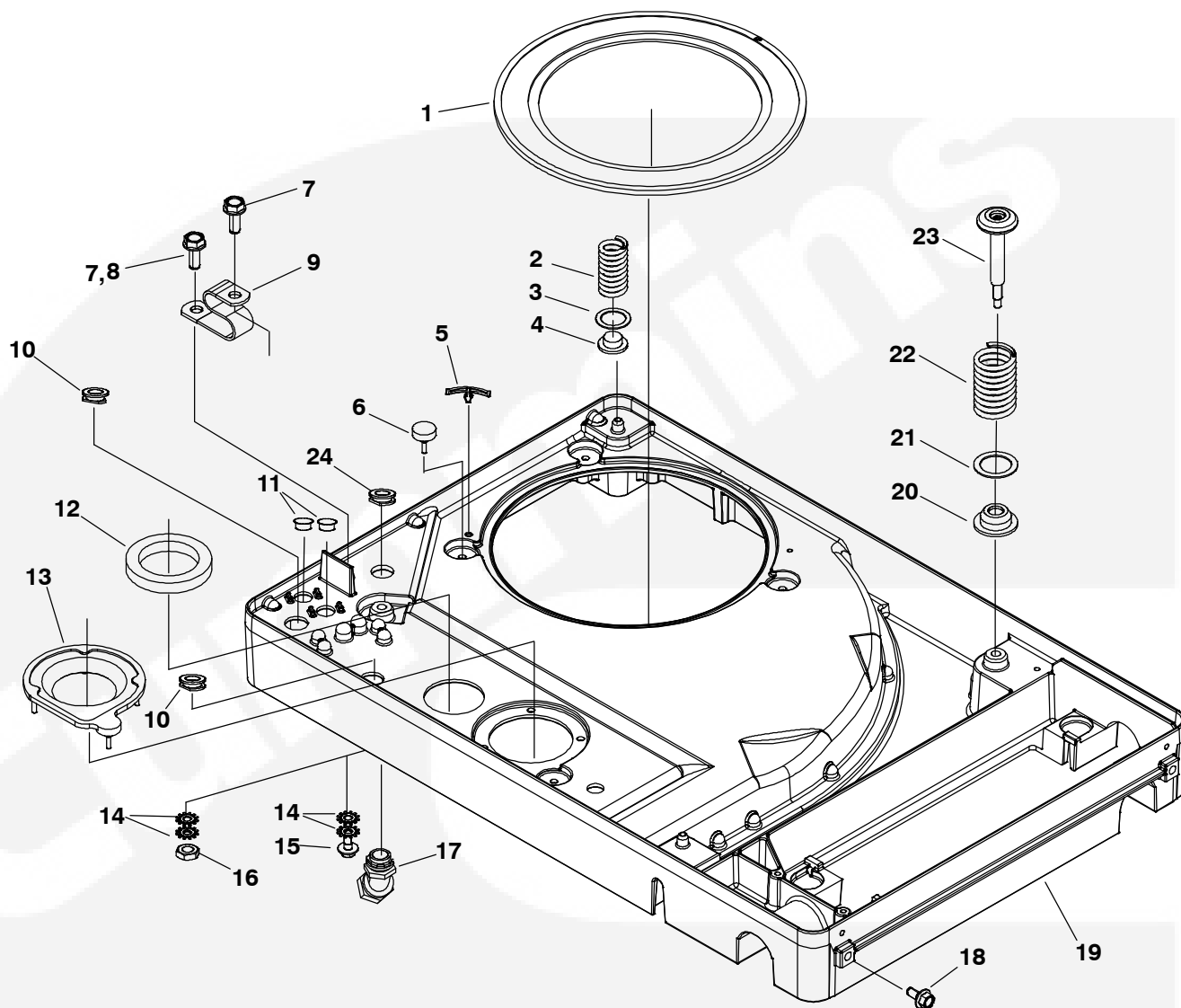
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4200	1	Base, Mounting	10	815-0793-05	4	spark plug boot)
2	815-0954-05	5	Screw, Flange Head Machine (M8 x 1.25 x 35mm)	11	815-0941-03	2	Screw, Hex Flange Thread Form (M5 x 0.8 x 20mm)
3	821-0010	1	Screw, Lock Head (1/4-20 x 1/2'')	12	363-0205	1	Screw, Hex Thread Form (M6 x 1 X 16mm)
4	332-3708	1	Standoff, Insulated	13	305-1006	1	Pad, Heatsink
5	850-0045	1	Washer, Split Lock (5/16'')	14	140-3212	1	Regulator, Battery Charger
6	870-2222	2	Nut, Hex Flange (5/16-18)	15	508-1133	1	Hose, Air
7	508-1142	1	Boot, Rubber Battery	16	508-1134	2	Boot, Rubber Wiring
8	166-0859-01	1	Coil, Ignition (800mm Lead with spark plug boot)				Grommet, Ignition
9	166-0859-02	1	Coil, Ignition (573mm Lead with				

Fan Shroud



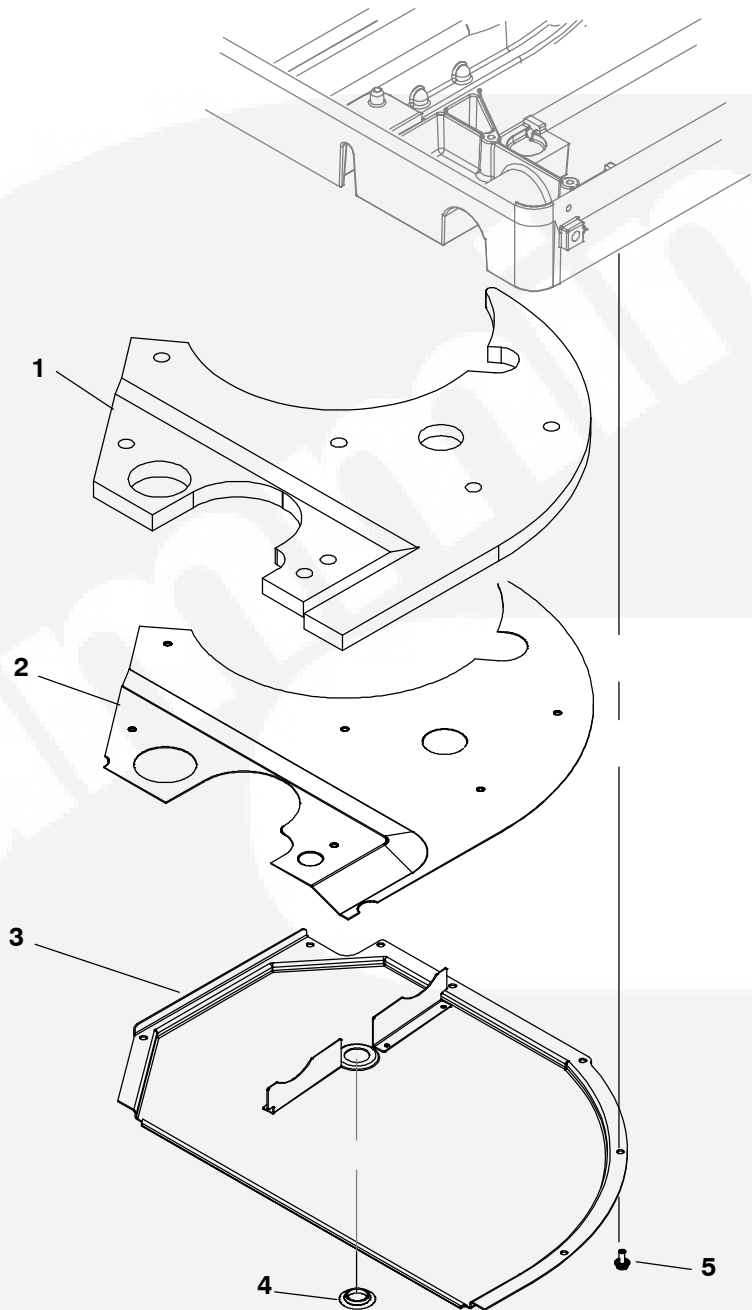
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0969-03	4	Screw, Hex Washer Head Thread Form (M6 x 1 x 46.5mm)
2	815-0969-02	4	Screw, Hex Washer Head Thread Form (M6 x 1 x 33mm)
3	134-5205-01	1	Shroud, Fan

## Drip Pan (HGJAD, HGJAE)



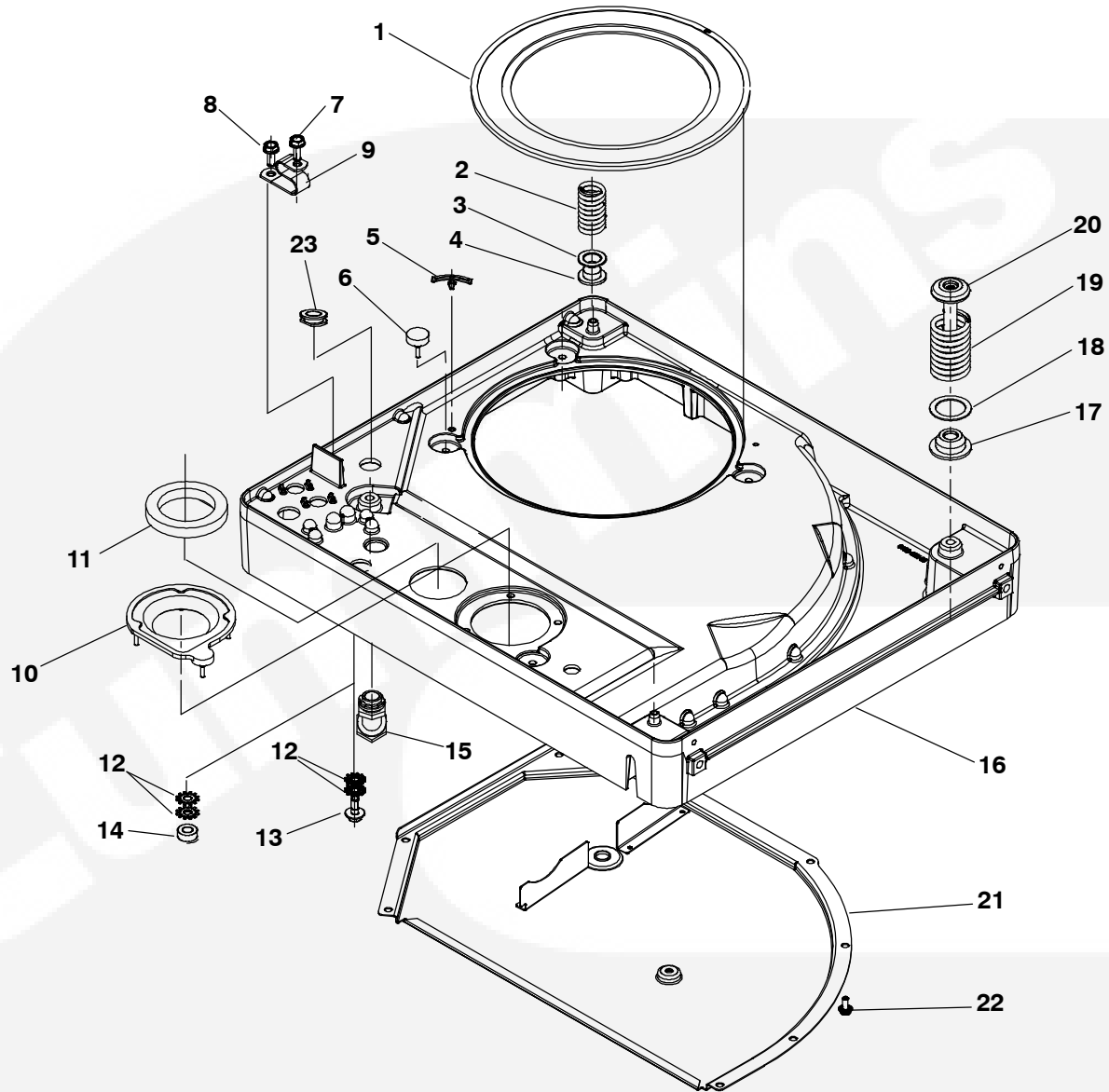
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	509-0349	1	Seal, Brush	13	134-5211	1	Cover, Oil Filter
2	402-0733	2	Isolator, Spring	14	856-0008	2	Washer, EIT Lock (5/16")
3	526-0449	2	Washer, Flat	15	815-0508	1	Screw, Hex Washer Head Thread Form (5/16-18 x 3/4")
4	402-0746	2	Isolator, Rubber				Gasoline
5	140-3203	2	Clip, Brush	16	862-0015	1	Nut, Hex Heavy (5/16-18)(LP)
6	402-0744	3	Isolator, Snubber	17	331-0569	1	Elbow, 45° Conduit
7			Screw, Hex Washer Head (M8 x 1.25 x 20mm)	18	815-0384	4	Screw, Hex Washer Head Thread Form (3/8-18 x 3/4")
	815-0829-06	2	Gasoline				
	815-0829-06	1	LP	19	403-4201-01	1	Pan, Drip
8	815-0836	1	Screw, Hex Washer Head (5/16-18 x 1.50") LP Only	20	402-0745	2	Isolator, Rubber
9	337-0049	1	Strap, Bond	21	526-0448	2	Washer, Flat
10	508-1145	2	Grommet	22	402-0727	2	Isolator, Vibration Spring
11			Plug, Drip Pan	23	815-1543	2	Screw, Socket Head Torx
	517-0136	1	LP	24	508-1182	1	Grommet (5/8")
	517-0136	2	Gasoline (Not EFI)				
12	405-6570	1	Seal, Air Intake				

Drip Pan Inlet Cover  
(HGJAD, HGJAE)



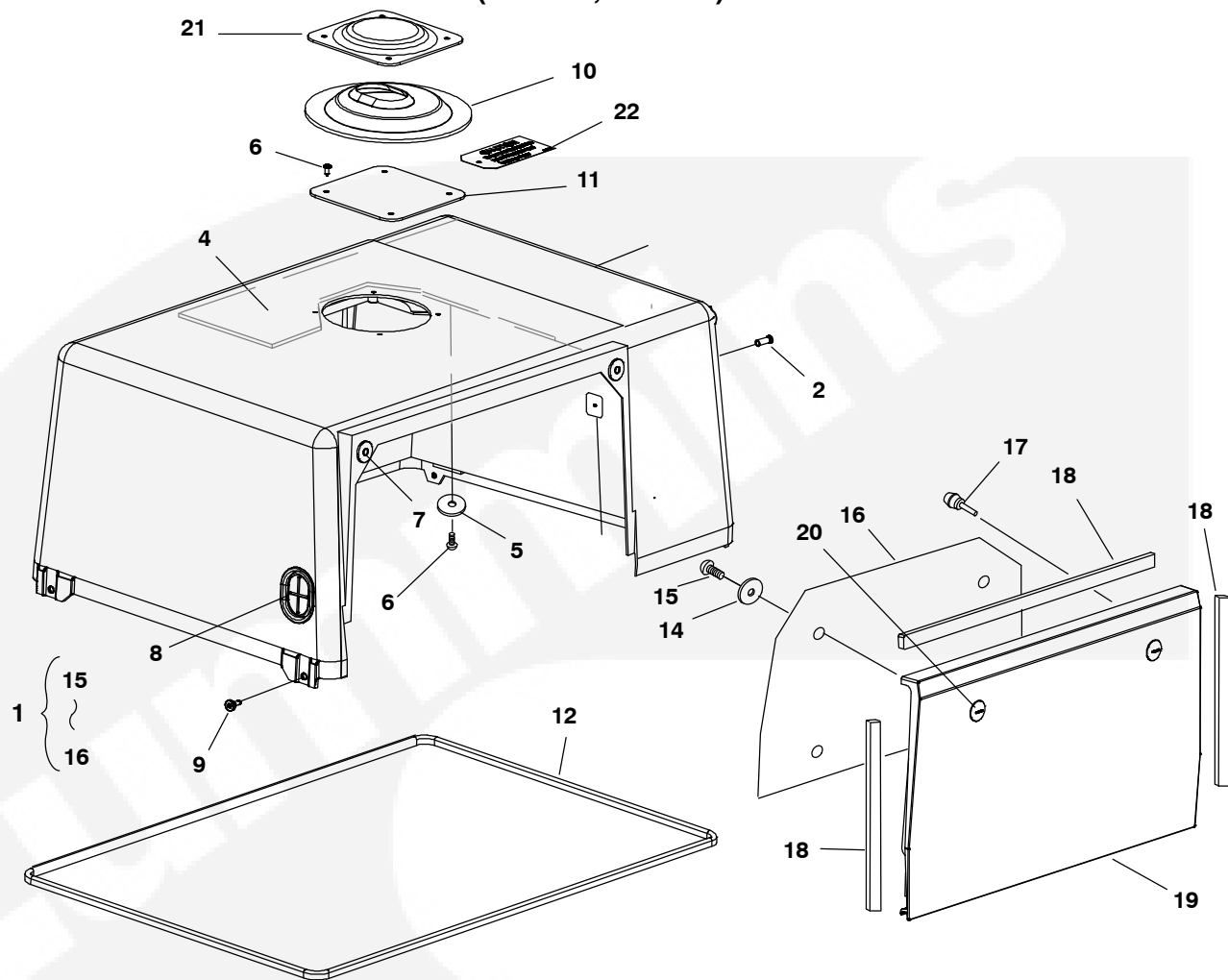
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6768	1	Insulation, Inlet Baffle	5	815-0753	17	Screw, Hex Washer Head Thread Form (M6 x 14mm)
2	A030C589	1	Retainer, Insulation				
3	134-5232	1	Cover, Inlet				
4	517-0351-01	1	Plug, Hole				

## Drip Pan (HGJAF)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	509-0349	1	Seal, Brush	12	856-0008	2	Washer, EIT Lock
2	402-0733	2	Isolator, Spring	13	815-0508	1	Screw, Hex Washer Head Thread Form (5/16-18 x 3/4")
3	526-0449	2	Washer, Flat	14	862-0015	1	Nut Hex (5/16-18) (LP)
4	402-0746	2	Isolator, Rubber	15	331-0569	1	Elbow, 45° Conduit
5	140-3203	2	Clip, Brush	16	403-4201-03	1	Pan, Drip
6	402-0744	3	Isolator, Snubber	17	402-0745	2	Isolator, Rubber
7	815-0829-06	1	Screw, Hex Washer Head Thread Form (LP) (M8 x 1.25 x 20mm)	18	526-0448	2	Washer, Flat
8	815-0836	1	Screw, Hex Washer Head Thread Form (LP) (5/16-18 x 1.5")	19	402-0727	2	Isolator, Spring
9	337-0049	1	Strap, Bond	20	815-1543	2	Screw, Socket Head Torx
10	134-5211	1	Cover, Oil Filter	21	134-5232	2	Cover Assy, Inlet
11	405-6570	1	Seal, Air Intake	22	815-0753	10	Screw, Locking Flange (M6 x 1 x 14)
				23	508-1182	1	Grommet (5/8")

**Housing (Spec A-E)  
(HGJAD, HGJAE)**



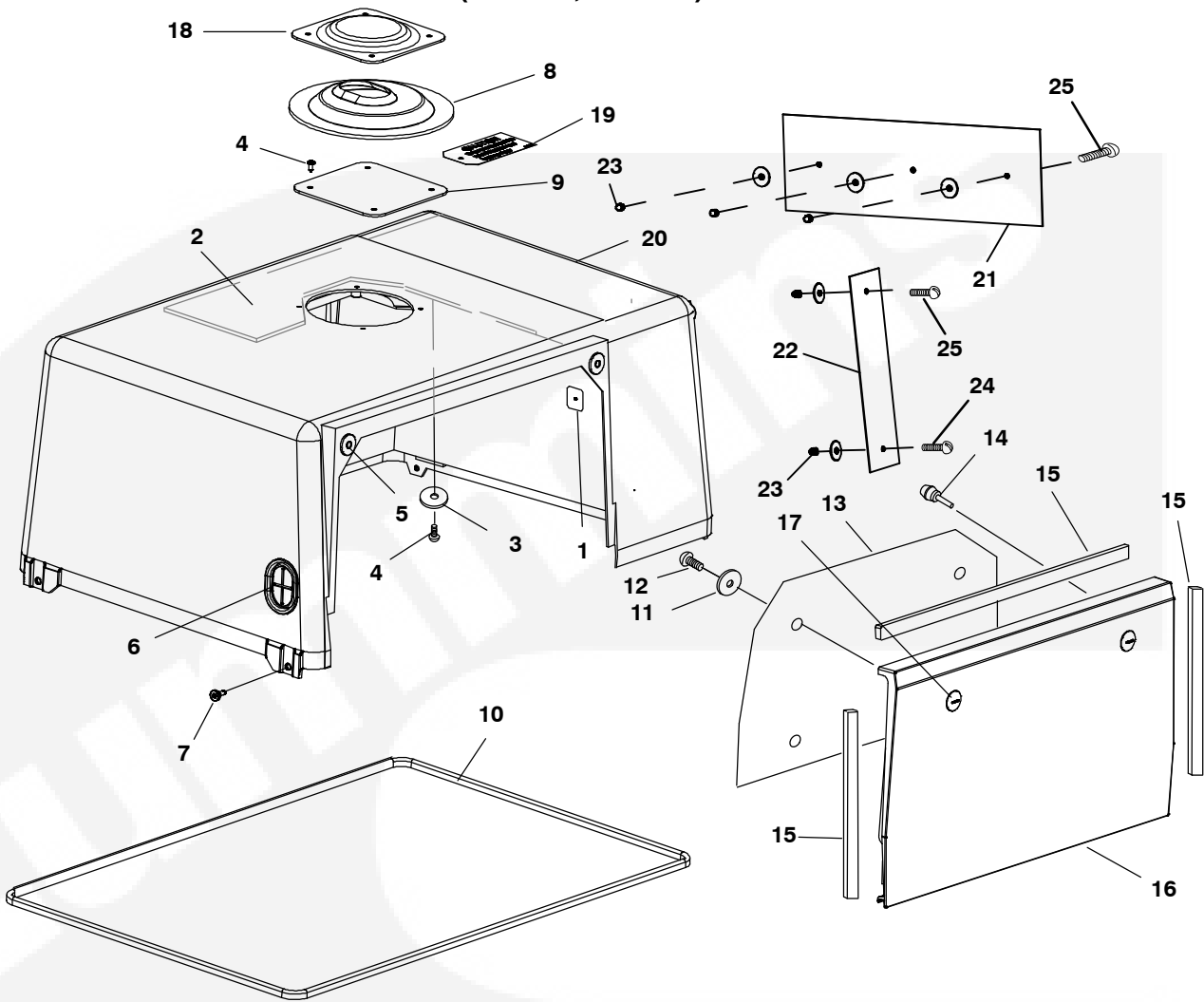
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	0405-6915-02	1	Assy, Housing (Green) (Includes Parts Marked >)	17	0516-0258	2	+ Pin, Latch
	0405-6915-03	1	Assy, Housing (Marine White) (Includes Parts Marked >)	18	0405-4311-01	1	+ Gasket, Door (1182mm)
1	0405-6916-02		> Enclosure, Assy (Green) (Includes Parts Marked +)	19			+ Door, Enclosure
	0405-6916-03	1	Assy, Housing (Marine White) (Includes Parts Marked *)		0818-0226-01	1	(Non-Emissions (BLK)
2	0818-0226-01	2	*Rivet		0818-0226-03	1	(Non-Emissions (WH)
3	0870-0462	2	*Nut, Push-on	20	0406-1128	2	+ Latch, Door
4	0405-5940-01	1	*Insulation, Cover	21	0405-7242	1	Cover, PTO (Units with PTO)
5	0526-0130	9	*Washer, Flat (1/4" ID x 1" OD)	22	0098-7955	1	Label, Caution, Pump (with Hydraulic Pump)
6	0819-1145	9	*Screw, Pan Head Thread Form (#10 x 1/2")				
7	0508-1164	2	*Grommet, Pin				
8	0508-1116	1	*Grommet, Remote				
9	0823-0015	4	Screw, Shoulder Torx (M6 x 1 x 10mm)				
10	0405-6979	1	Seal, Housing (Units with Pump)				
11	0405-6980	1	Cover, PTO (Units w/o PTO)				
12	0508-1155	1	Seal, Cover (2736mm)				
13			> Door Assy (Includes Parts Marked +)				
	0405-6918-02	1	(Onan Green)				
	0405-6918-03	1	(White)				
14	0526-0394	4	+ Washer, Flat (1/4" ID x 1.25" OD)				
15	0819-1145	4	+ Screw, Round Head Machine (#10x1/2")				
16	0405-5943-01	1	+ Insulation, Door				

\* - Parts Included in Housing Assy.

+ - Parts Included in Door Assy.

Note: HGJAF is unhoused

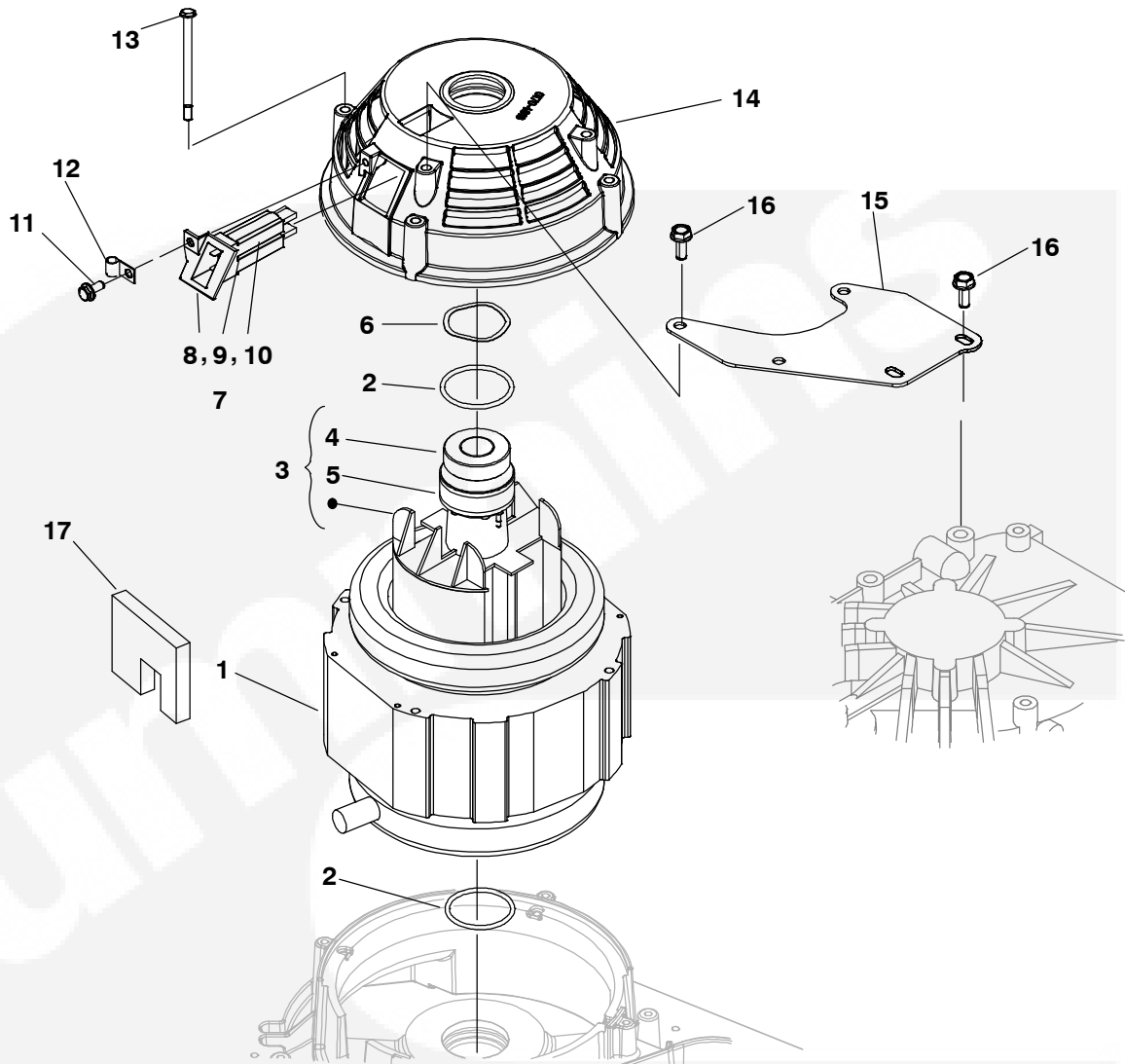
# Housing (Begin Spec J) (HGJAD, HGJAE)





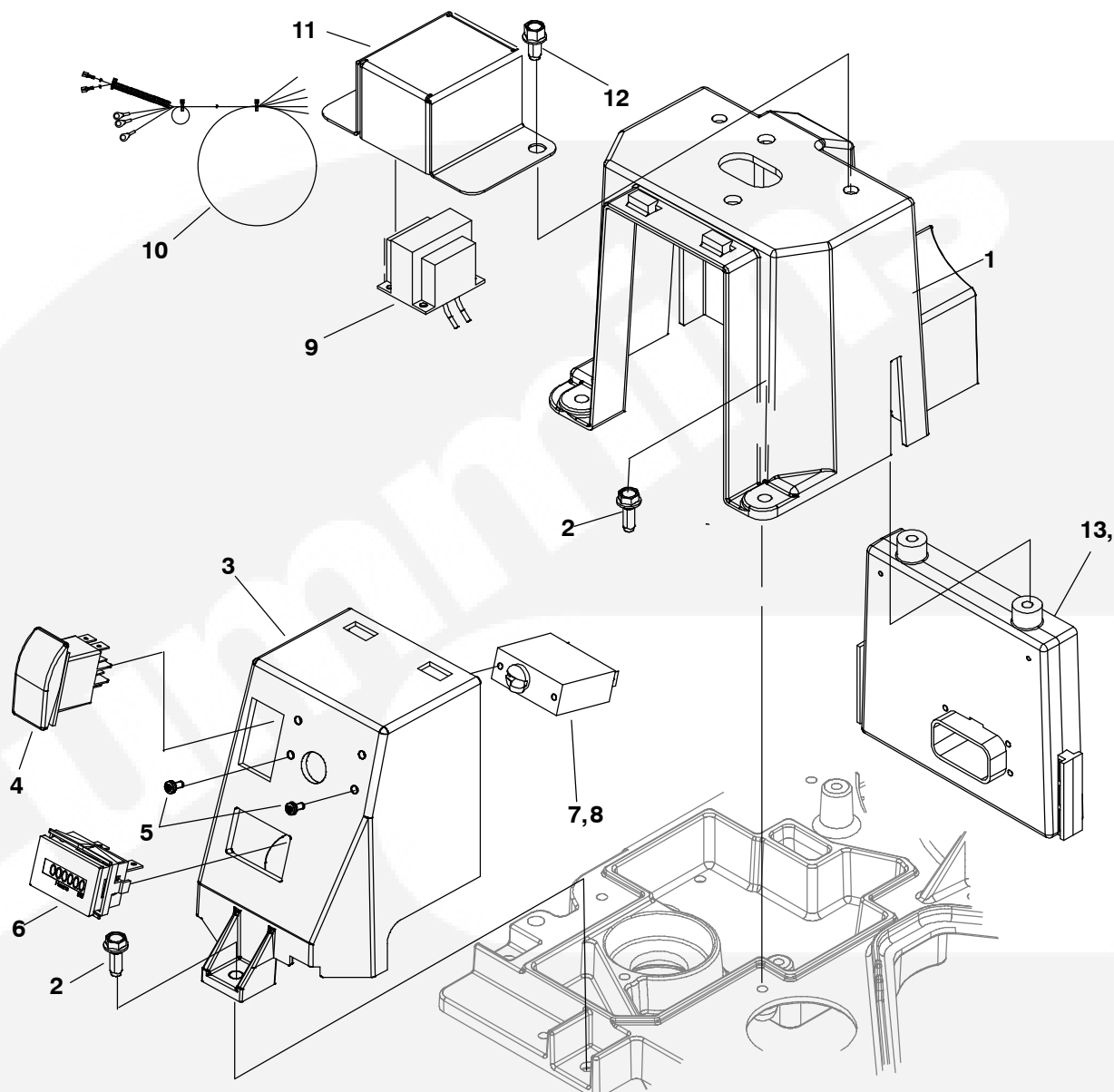
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A035H761	1	Assy, Housing (Includes Parts Marked >)	17	0406-1128	2	+ Latch, Door
1	0870-0642	2	*Nut, Push-on	18	0405-7242	1	Cover, PTO (Units with PTO)
2	A035H751	1	*Insulation, Cover	19	0098-7955	1	Label, Caution, Pump (with Hydraulic Pump)
3	0526-0130	9	*Washer, Flat (1/4" ID x 1" OD)	20	A035H759	1	Cover, Enclosure
4	0819-1145	9	*Screw, Pan Head Thread Form (#10 x 1/2")	21	A035H737	1	Shield, Heat
5	0508-1164	2	*Grommet, Pin	22	A035H739	1	Shield, Heat
6	0508-1116	1	*Grommet, Remote	23	A035H735	5	Nut, Acron
7	0823-0015	4	Screw, Shoulder Torx (M6 x 1 x 10mm)	24	A047C770	1	#Screw, Button Head (25mm)
8	0405-6979	1	Seal, Housing (Units with Pump)	25	A035H768	1	#Screw, Button Head (20mm)
9	0405-6980	1	Cover, PTO (Units w/o PTO)	26	A047N988	1	Kit, Screws
10	0508-1155	1	Seal, Cover (2736mm)				
11	0526-0394	4	+ Washer, Flat (1/4" ID x 1.25" OD)				* - Parts Included in Housing Assy.
12	0819-1145	4	+ Screw, Round Head Machine (#10 x 1/2")				+ - Parts Included in Door Assy.
13	0405-5943-01	1	+ Insulation, Door				# - Parts Included in Screw Kit
14	0516-0258	2	+ Pin, Latch				
15	0405-4311-01	1	+ Gasket, Door (1182mm)				
16	A030T899	1	+ Door, Enclosure				

## Generator



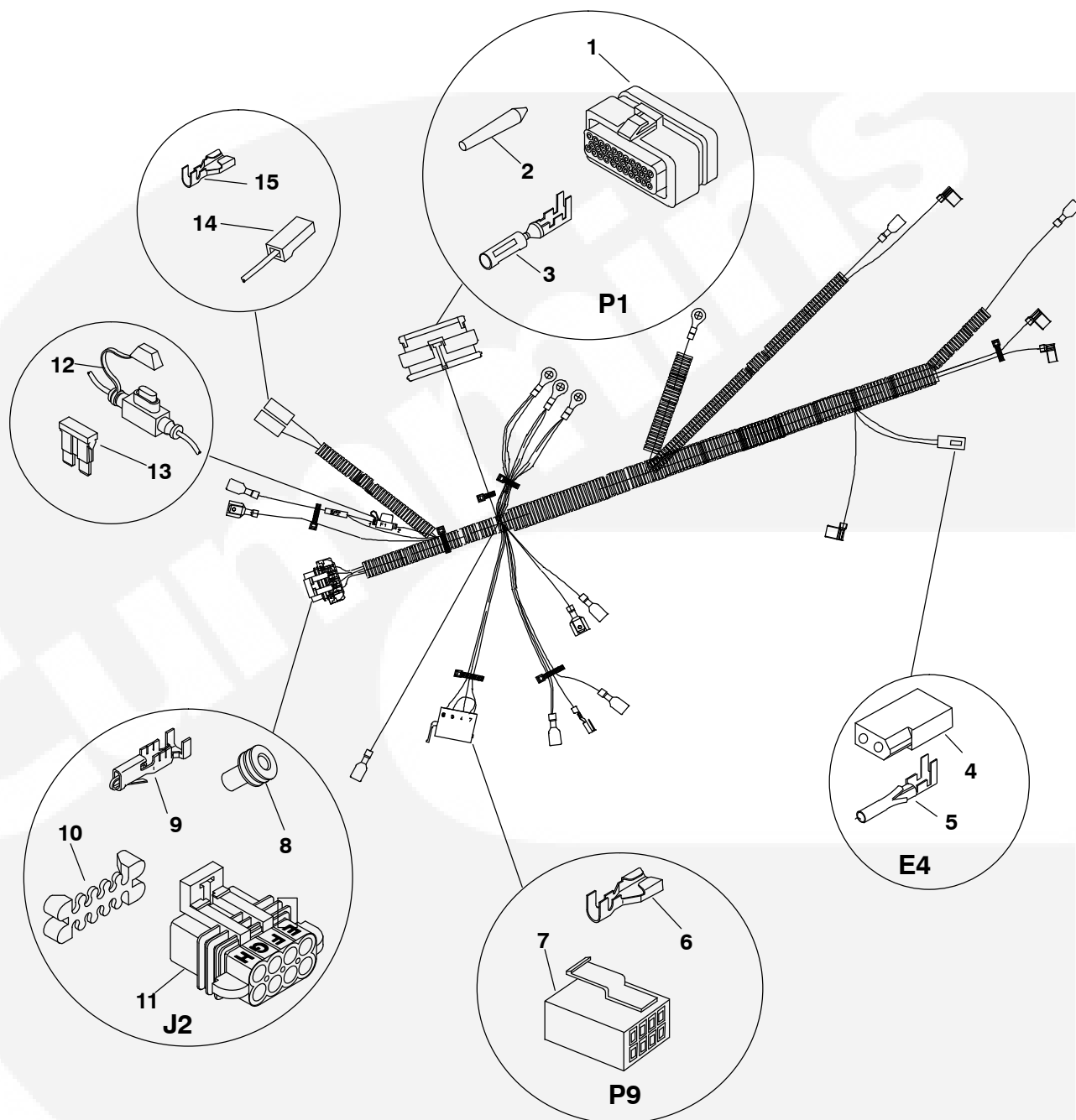
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator				Brush and Spring)
	220-4596-01	1	Single Phase 3 Wire 120/240	8	212-1304	1	Block, Brush
	220-4596-02	1	Single Phase 2 Wire 120	9	214-0109	2	Brush, Generator
	220-4597-01	1	Three Phase 4 Wire (Delta)	10	212-1276-03	2	Spring, Generator Brush
	A030A544	1	Single Phase 2 Wire (120V)(5.5kW) (Begin SpecJ)	11	815-0753	1	Screw, Hex Washer Head Thread Form (M6 x 14mm)
	A030A333	1	Single Phase 3 Wire (120/240V)(5.5kW) (Begin Spec J)	12	332-2319	1	Clamp, Cable Bolt (M6 x 1 x 160mm)
					815-0927-01	4	(Spec A-E)
					815-0927-02	4	(Single Phase 2 and 3 Wire (5.5kW)(Begin Spec J)
2	509-0420	2	O'Ring				
3			Rotor Assy (Includes Bearings and Collector Ring	14	211-0508	1	Endbell, Generator
				15			Bracket, Generator Stab
	201-3567-02	1	Spec A		211-0494-02	1	(Spec A-E)
	201-3638-02	1	Begin Spec B		211-0500-02	1	Single Phase 2 and 3 Wire (5.5kW)(Begin Spec J)
	201-3638-01	1	Single Phase 2 and 3 Wire (5.5kW)(Begin Spec J)	16	815-0829-06	4	Screw, Hex Washer Thread Form (M8 x 1.25 x 20mm)
4	510-0217	2	Bearing, Ball				
5	204-0141	1	Ring, Collector	17	405-6701	1	Seal, Control
6	851-0045	1	Washer, Wave				
7	212-1303	1	Block, Brush (Includes Block,				

## Control



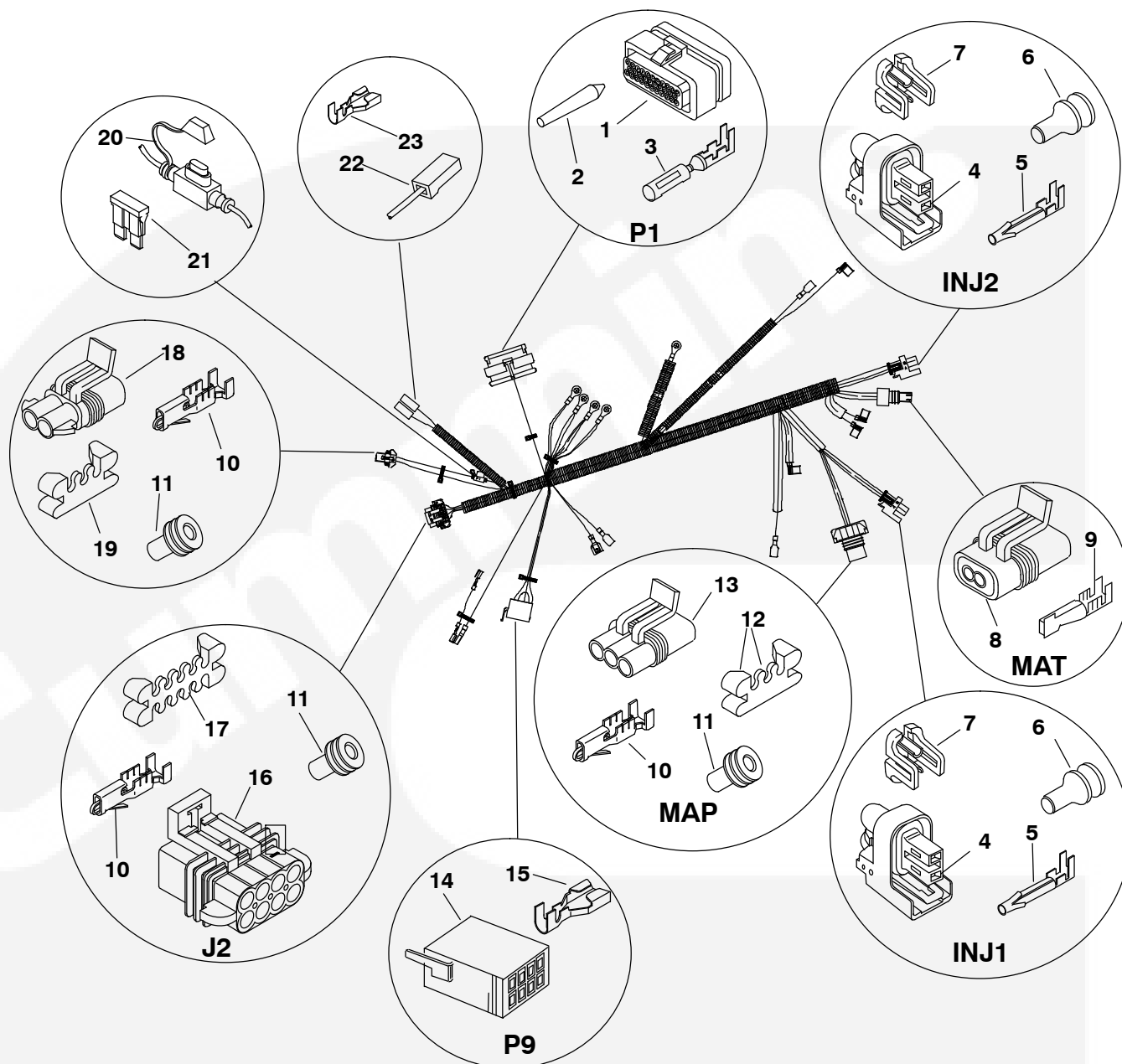
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4308	1	Cover, Control	10	338-3706	1	Harness, AC Output
	319-4308-01	1	Single Phase Sets		338-4059	1	Single Phase (120 Volts)
			Three Phase Sets		338-3928	1	Single Phase (120/240 Volts)
2	815-0941-03	6	Screw, Hex Washer Head				Three Phase
			Thread Form (M6 x 1 x 18mm)	11	319-4515-02	1	Cover, Control (Three Phase)
3	319-4307-02	1	Switch, Rocker	12	815-0943-02	2	Screw, Hex Washer Head
4	308-1038	1	Switch, Rocker				Thread Form (1/4-10 x 1/2")
5	815-0550-03	4	Screw, Phillips (#6-32 x 3/8")	13		1	Control, PCB
6	302-2048	1	Hourmeter		300-5047	1	HGJAD, HGJAE (Spec A-E)
7	320-1649-04	1	Breaker, Circuit 18 Amp				and HGJAF (Spec A-C)
			Three Phase		A032Y912	1	Control Assy
8	320-1548-05	1	Breaker, Circuit 30 Amp				(HGJAD and HGJAE (Begin
			Single Phase				Spec J)
9	315-0856	1	Transformer, (Three Phase)				

# **Engine Harness** (HGJAE, HGJAF) (Spec A-E)



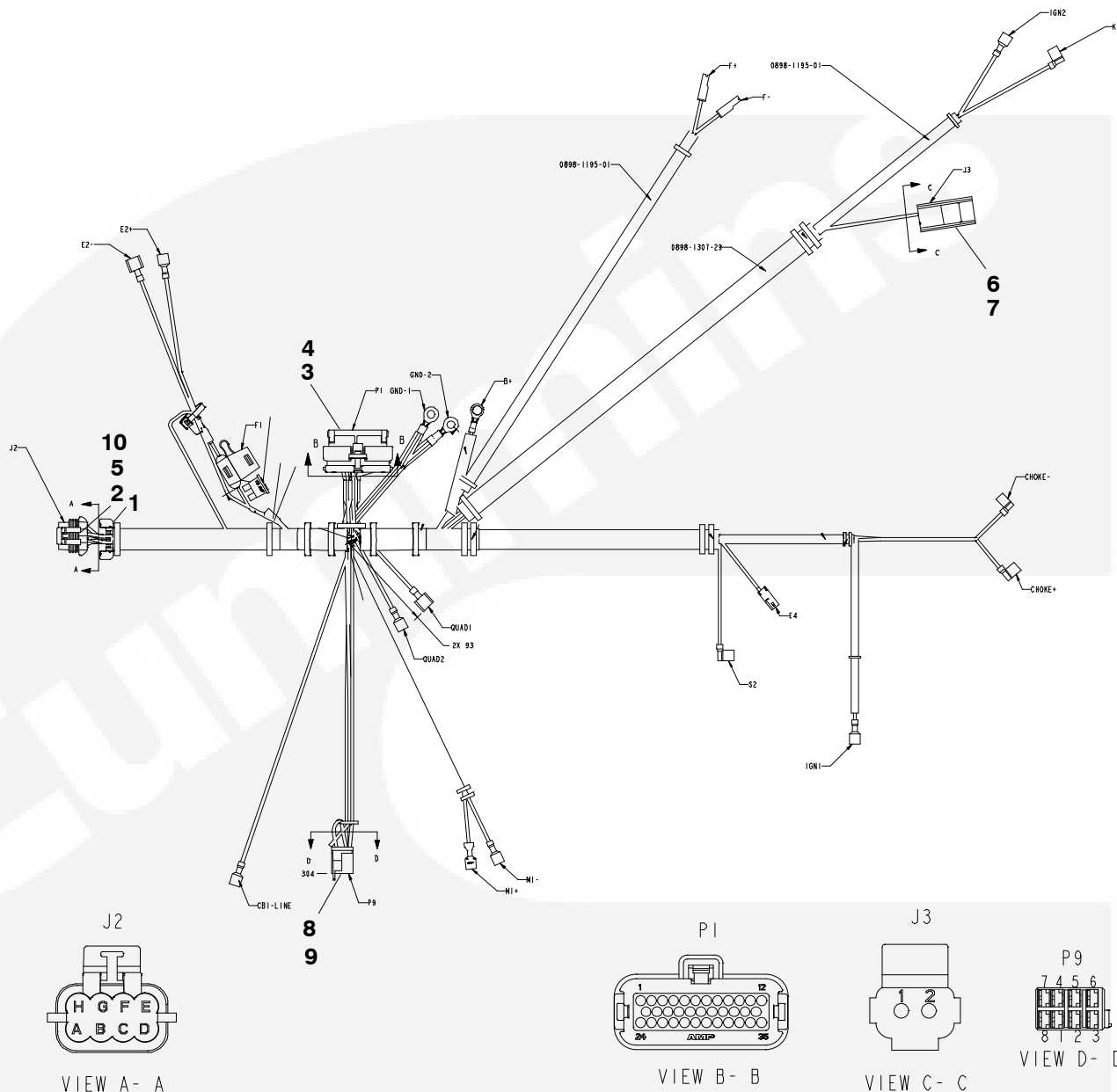
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-3924	1	Harness, Engine (Carbureted)	8	323-1708	10	Seal, Cable (J2)
1	323-1819-01	1	Connector, Plug (P1) (35 Pin)	9	323-1709	AR	Terminal, Socket (J2)
2	323-1615	5	Plug, Cavity (P1)	10	323-1741	1	Housing, Lock (J2)
3	323-1614-01	AR	Terminal, Socket (P1)	11	323-1743	1	Connector, Plug (J2) (8 Pin)
4	323-1861	AR	Housing, 2 Pin (E4)	12	321-0325	1	Holder, Fuse (Blade Type)
5	323-1860	AR	Terminal, Socket (E4)	13	321-0307-04	1	Fuse (75 Amp)
6	332-2928	AR	Terminal, Receptacle (P9)	14	323-1871	AR	Housing, Connector (F-, F+)
7	308-1019	1	Connector, Switch Housing (P9)	15	323-1870	AR	Receptacle, Terminal (F-, F+)

## Engine Harness (HGJAD) (Spec A-E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-3927	1	Harness, Engine (EFI)	12	323-1816	1	Housing, Lock (MAP, J2)
1	323-1819-01	1	Connector, Plug (35 Pin)(P1)	13	323-1815	1	Housing, Connector (MAP)
2	323-1615	5	Plug, Cavity (P1)	14	308-1019	1	Connector, Switch Housing (P9)
3	323-1614-01	AR	Socket, Terminal (P1)	15	332-2928	AR	Terminal, Receptacle (P9)
4	323-1812	AR	Housing, Connector (INJ1, INJ2)	16	323-1743	1	Connector, Plug (J2) (8 Pin)
5	323-1810	AR	Terminal, Socket (INJ1, INJ2)	17	323-1741	1	Housing, Lock (J2)
6	323-1813	4	Terminal, Seal (INJ1, INJ2)	18	323-1884	1	Connector, (2 Pin) (E2, E1)
7	323-1814	2	Housing, Lock (INJ1, INJ2)	19	323-1890	1	Housing, Lock (E2)
8	323-1817	1	Housing, Connector (MAT)	20	321-0325	1	Holder, Fuse (Blade Type)
9	323-1818	AR	Terminal, Socket (MAT)	21	321-0307-04	1	Fuse (75 Amp)
10	323-1709	AR	Terminal, Socket (J2, MAP, E2, E1)	22	323-1871	AR	Housing, Connector (F-, F+)
11	323-1708	10	Seal, Cable (J2, MAP)(E2, E1)	23	323-1870	AR	Receptacle, Terminal (F-, F+)

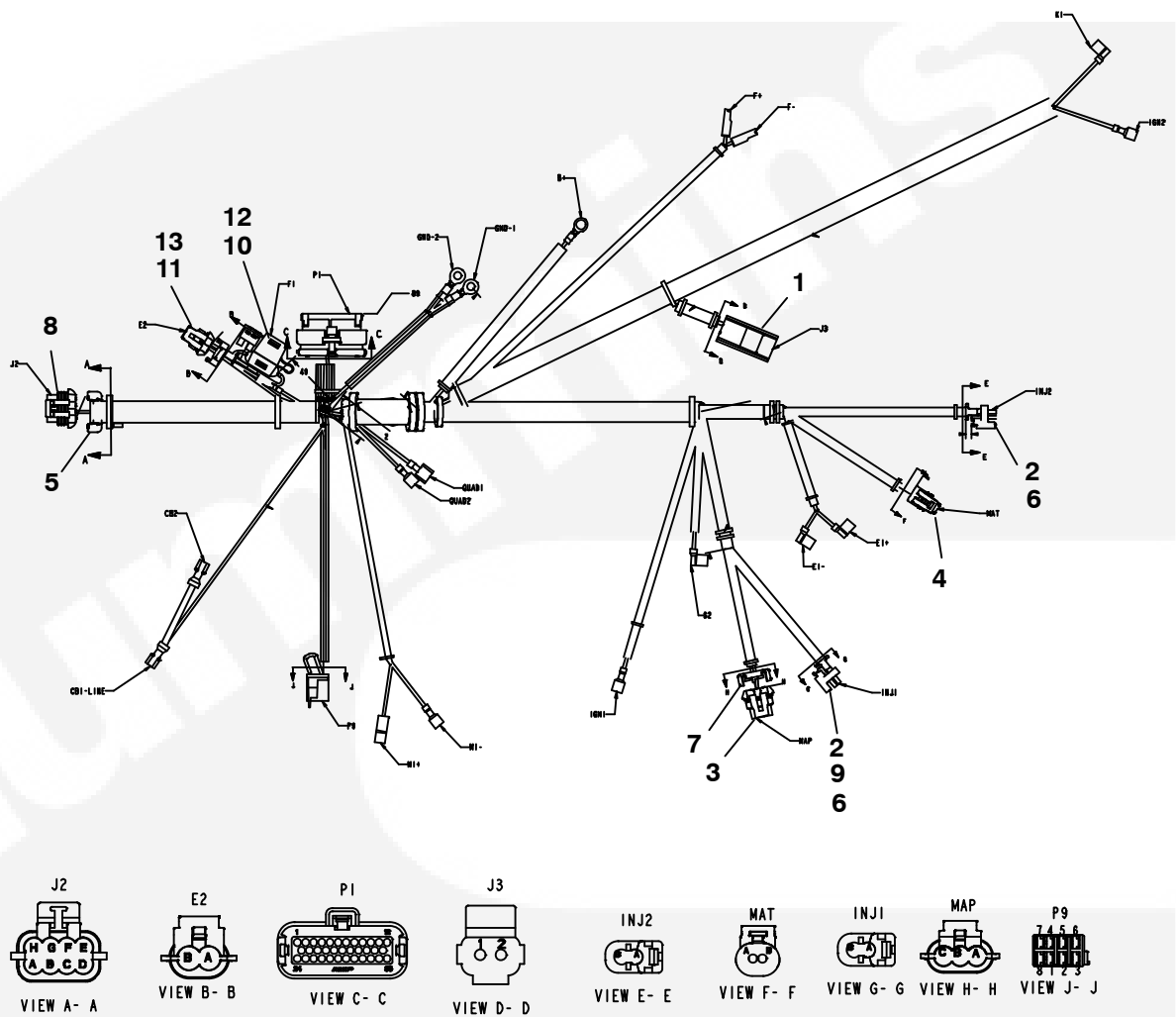
## Engine Harness (Non EFI) HGJAE (Begin Spec J)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A030N228	1	Harness, Engine
1	323-1741	1	Housing, Lock
2	323-1708	8	Seal, Cable
3	323-1819-01	8	Connector, Plug
4	323-1614-01	23	Terminal, Socket
5	323-1709	5	Terminal, Socket

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-2568	1	Connector, Receptical
7	332-4343	2	Terminal, Socket
8	308-1019	1	Connector, Switch
9	332-2928	9	Terminal, Receptacle
10	323-1743	1	Connector, Plug

Engine Harness (EFI)  
HGJAD (Begin Spec J)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A030N230	1	Harness, Engine	8	323-1708	10	Seal, Cable
1	323-2568	1	Connector, Receptacle	9	323-1813	4	Seal, Cable
2	323-1812	2	Connector	10	321-0325	1	Holder, Fuse
3	323-1815	1	Connector, Housing	11	323-1884	1	Connector, Two Pin
4	323-1817	1	Connector, Housing	12	321-0307	1	Fuse (7.5 Amp)
5	323-1741	1	Housing, Lock	13	323-1890	1	Housing, Lock
6	323-1814	2	Housing, Lock				
7	323-1816	1	Housing, Lock				

## Labels, Accessories

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
543-0001		1	Label, Package	A032X745		1	Label, Warning
543-0002-01		1	Label, Package	<b>Accessories</b>			
543-0002-02		1	Label, Package				
543-0002-03		1	Label, Package	338-4155-01		1	Harness, Remote Panel
98-7903		1	Label, Caution (No Step)	338-4155-02		1	Harness, Remote Panel
			HGJAD, HGJAE	338-4156		1	Harness, Accessory
98-7906		1	HGJAD, HGJAE	541-0671		1	Kit, fuel system (Ford Truck)
98-7908-01		1	5500, HGJAF	541-0672		1	Kit, fuel system (GM Truck)
98-7908-02		1	7000, HGJAF	541-0673		1	Kit, fuel system (Ford E Van)
98-7907-01		1	Label, 5500, HGJAE				
98-7907-02		1	Label, 7000, HGJAE				
98-7907-06		1	Label, 7000, HGJAD				
98-7907-05		1	Label, 5500, HGJAD				
98-7955		1	Label, Caution, Pump				



## Numerical Index

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0405-6916-03, <b>37</b>		110-3930, <b>6</b>		148-1131-SO, <b>20</b>		166-0859-02, <b>31</b>	
0405-6918-02, <b>37</b>		110-3939, <b>6</b>		148-1145, <b>20</b>		167-1638, <b>6</b>	
0405-6918-03, <b>37</b>		121-0122-02, <b>7</b>		148-1158, <b>21</b>		187-6001, <b>6</b>	
0405-6979, <b>37 , 39</b>		121-0130, <b>6</b>		148-1303-02, <b>20</b>		187-6002, <b>6</b>	
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0406-1128, <b>37 , 39</b>		134-5188-02, <b>30</b>		149-2628, <b>21</b>		187-6011, <b>25</b>	
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0516-0258, <b>37 , 39</b>		134-5232, <b>34 , 35</b>		150-2744-02, <b>11</b>		187-6025, <b>6</b>	
0526-0130, <b>37 , 39</b>		140-3116, <b>22</b>		150-2745, <b>11</b>		187-6026, <b>6</b>	
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0870-0462, <b>37</b>				154-2746, <b>27</b>		187-6044, <b>8</b>	
0870-0642, <b>39</b>		141-0983, <b>12 , 13 , 14 , 19</b>		154-2765, <b>28</b>		187-6045, <b>8</b>	
098-7903, <b>46</b>		146-0773, <b>12 , 13 , 19</b>		154-3043, <b>27</b>		187-6055, <b>9</b>	
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## **Cummins Power Generation**

1400 73rd Ave. NE  
Minneapolis, MN 55432 USA

Phone 1 763 574 5000

Toll-free 1 800 888 6626

Fax 1 763 574 5298

Email [www.cumminsonan.com/contact](http://www.cumminsonan.com/contact)  
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